DDP 184
Digital Document Publisher

Installation Manual

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October, 2005
N904118

Revision Table for manual

Rev. for Manual	Machine Rev.	Page No.(Contents)	Date
00	-	First Edition	May, 2005
01	-	Table of Contents ii (01), Table of Contents iii (01), 2-3(01),2-4(01),2-5(01),4-24(01),4-26(01),4-27(01),4-32(01), 4-37(01),6-1(01),6-2(01), 6-3(00) to 6-10(00)	Oct, 2005
02	Front : X Rear : B1	RoHS Compliance. 2-4(02),2-5(02),2-20(01),3-4(01),3-9(01),4-17(01),4-37(02), 4-38(01)	Mar, 2006
03	-	2-1(01),2-2(01),2-4(03),2-5(03),2-12(01),2-13(01),5-1(01), 5-2(01),6-9(01)	Jun, 2006

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This manual describes information for handling and operating the DDP184 laser printer.

NOTICE TO USER

In an effort to meet the demands of a rapidly changing technology, the manufacturer is continually developing new features and functions to meet your changing printing or printer needs. As a result, this manual may not exactly reflect future changes made to the product. Please be sure to consult all manual updates or addenda when using this product's documentation.

INTRODUCTION

This manual provides essential information to install the DDP184 laser printer.
Carefully read and understand the safety instructions in this manual before starting installation.
Keep this manual on hand for reference.
DDP184 represent the model LB184A### laser printer.
(#:0-9, A-Z or blank).

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⚠ SAFETY SUMMARY

The hazard warnings which appear on the warning labels on the machine or in the manual have one of the following alert headings consisting of an alert symbol and a signal word, DANGER, WARINIG, or CAUTION.

	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
⚠ DANGER:	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
⚠ WARNING:	Indicated a potentially hazardous situation which, if not avoided, can result in death or serious injury.
⚠ CAUTION:	Indicates a hazardous situation which, if not avoided, will or can result in minor or moderate injury, or serious damage of product.
CAUTION:	Indicates a potentially hazardous situation which, if not avoided, may result in property damage.

1. ⚠ General Safety Guidelines

Before operating the machine, read the following instructions carefully:

- Follow all the installation procedures provided in this manual.
- Pay special attention to and follow all the hazard warnings on the machine and in the manual. Failure to do so can cause injury to yourself or damage to the machine.
- Do not perform any installation in any way other than as provided in this manual.
- Keep in mind that the hazard warnings in this manual or on the machine cannot cover every possible case, as it is impossible to predict and evaluate all circumstances beforehand. Be alert and use your common sense.

2. ⚠ Hazard Warning Statements

The following are the hazard warning statements contained in this manual.

2.1 ⚠ WARNING Statement

- Leave over than 400mm at the rear of the Printer for ventilation. Otherwise print quality may be degraded.

  (Section 1.2,Page 1-1)

- Be careful when unpacking using the crane or forklift. Do not to drop device, hit it against something, or turn it over on its side.

  (Section 2.1,Page 2-1)
  (Section 2.2,Page 2-6)
  (Section 2.3,Page 2-9)
  (Section 2.6,Page 2-16)

- Perform unpacking where there is no dust or water leaking.

  (Section 2.1,Page 2-1)
  (Section 2.2,Page 2-6)
  (Section 2.3,Page 2-9)
  (Section 2.4,Page 2-12)
  (Section 2.5,Page 2-14)
  (Section 2.6,Page 2-16)
  (Section 2.7,Page 2-20)

- Do not place heavy objects which weigh 5 kg or more on device.

  (Section 2.1,Page 2-1)
  (Section 2.2,Page 2-6)
  (Section 2.3,Page 2-9)
  (Section 2.5,Page 2-14)
  (Section 2.6,Page 2-16)

- Be careful when lifting device with the forklift so device is well-balanced on the arms of the lift. Also put the packing (cushion) between device and the forklift so device is not damaged.

  (Section 2.1,Page 2-1)
  (Section 2.2,Page 2-6)
  (Section 2.3,Page 2-9)
  (Section 2.6,Page 2-16)

⚠ SAFETY SUMMARY (Continued)

- Observe the speed limit of 300 mm/sec. (1.08 km/hr) when moving device. Do not move device on unleveled floor. Do not tilt device 15 ° or more.

(Section 2.1,Page 2-1)
(Section 2.2,Page 2-6)
(Section 2.3,Page 2-9)
(Section 2.4,Page 2-12)
(Section 2.5,Page 2-14)
(Section 2.6,Page 2-16)

- Choose the location to place device where the slope is less than 15 °. (Only left and right direction from view of operator's side.)

(Section 2.1,Page 2-1)
(Section 2.2,Page 2-6)
(Section 2.3,Page 2-9)

- Choose the location to place device where there is no condensation.

(Section 2.1,Page 2-1)
(Section 2.2,Page 2-6)
(Section 2.3,Page 2-9)
(Section 2.4,Page 2-12)
(Section 2.5,Page 2-14)
(Section 2.6,Page 2-16)

- Do not place objects on device.

(Section 2.4,Page 2-12)

- Choose the location to place device where the slope is less than 15 °.

(Section 2.4,Page 2-12)
(Section 2.5,Page 2-14)
(Section 2.6,Page 2-16)

- The voltage is constantly in unless the machine is unplugged or Breaker Switch is turned off.

(Section 4.1,Page 4-12)

- Unplug the Power Supply Cable prior to connecting the power supply source.

(Section 4.1,Page 4-12)

- Be careful not to have other personnel plug in the power cable while performing the connecting.

(Section 4.1,Page 4-12)

- Unplug the Power Supply Cable prior to connecting.

(Section 4.1,Page 4-12)

- Be careful not to have other personnel plug in the power cable while performing the connecting.

(Section 4.1,Page 4-12)

- Be sure to use power supply cable which complies with the following specification :

  Power plug rating ; Min. AC 250V, Min. 15A (2-Pole, 3-Wire, Grounded)
  6-15P UL Listed, CSA Certified in North America
  Type CA, Conformed to IEC 950 in Europe

  Power cable rating ; Min. AC 250V, Min. 15A
  Type SJT or SVT, UL Listed, CSA Certified in North America
  Conformed to IEC 950 in Europe

(Section 4.1,Page 4-12)

- Use the Power Supply Cable which is approximately 50 mm longer for the FG. The cable should be designed as below, so the FG power cable remains connected if the other cables are accidentally disconnected.

(Section 4.1,Page 4-12)

- Make sure that the power cables are connected to the correct terminals (“L”, “N”) on the power plug and Terminal Block. (FG power cable is connected to chassis.)

(Section 4.1,Page 4-12)

- The socket-outlet shall be installed near the printer and be easily accessible.

(Section 4.1,Page 4-12)

Chapter 1. Installation Requirements

1.1 Application

This specification is applied to the DDP184 Printer for Unpacking, Installing and Adjustment.

1.2 Installation Area

Installation area is shown in Appendix 1.1–1.8 corresponding to Table 1.1.

Table 1.1 Installation area

Appendix	Printer	Finisher	High Capacity Hopper	Container Stacker 1	Container Stacker 2
1.1	X	X			
1.2	X	X	X		
1.3	X			X	
1.4	X		X	X	
1.5	X			X	X
1.6	X		X	X	X
1.7	X	X			X
1.8	X	X	X		X

X: Composed

⚠ WARNING

Leave over than 400mm at the rear of the Printer for ventilation. Otherwise print quality may be degraded.

1.3 Installation Unit

Locations of the leveling bolt and Caster is shown in Appendix 2.1–2.4.

1.4 Tools Required

Table 1.2 Tools Required

Item	Name	Usage
1	Cutter	Unpacking
2	Phillips Screw Driver NO.2 shaft length; approx. 40 and 100mm	Removing and installing the screw for covers
3	Adjustable Open End Wrench	Leveling the bolt Fixing the leveling the bolts
4	Level Meter	Installation the Container Stacker

1.5 Environmental Conditions

Table 1.3 Environmental Conditions

Items	Value
Temperature	10 ~32 °C (50 ~ 89.6°F)
Humidity	20 ~80 %RH (Wet Bulb 26 °C (78.8 °F) max.)
Altitude	0 to 2,100 m (0 to 7,000 feet) max.

1.6 Input Line Voltage

Table 1.4 Print Engine Input Line Voltage

Input Line Voltage	AC 200V ~ AC 240V x 2 lines
Phase	Single Phase, two wires and grounding wire
Frequency	50/60 Hz ±1Hz
Transient (Static)	±10%
Transient (Dynamic)	–18% / +15% 500ms
Drop out	-100%, 20ms

Table 1.5 DDP Server Input Line Voltage

Input Line Voltage	AC 100V ~ AC 240V
Phase	Single Phase, two wires and grounding wire
Frequency	50/60 Hz ±1Hz
Transient (Static)	±10%

Chapter 2. Unpacking

2.1 Unpacking of the Front Engine and Rear Engine

⚠ WARNING

1) **Be careful when unpacking using the crane or forklift. Do not to drop device, hit it against something, or turn it over on its side.**
2) **Perform unpacking where there is no dust or water leaking.**
3) **Do not place heavy objects which weigh 5 kg or more on device.**
4) **Be careful when lifting device with the forklift so device is well-balanced on the arms of the lift. Also put the packing (cushion) between device and forklift so device is not damaged.**
5) **Observe the speed limit of 300 mm/sec. (1.08 km/hr) when moving device. Do not move device on unleveled floor. Do not tilt device 15 ° or more.**
6) **Choose the location to place device where the slope is less than 15 °. (Only left and right direction from view of operator's side.)**
7) **Choose the location to place device where there is no condensation.**

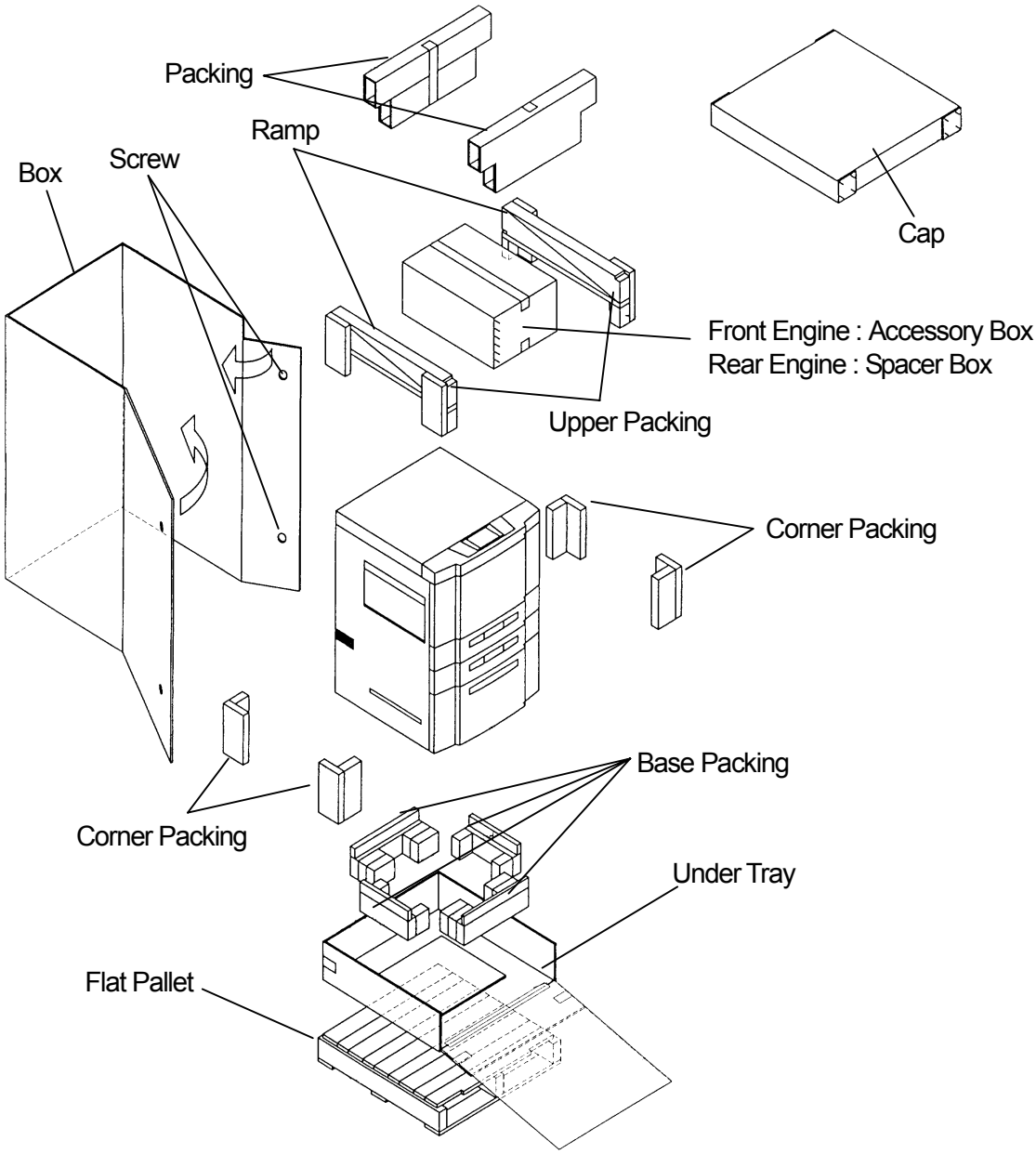
2.1.1 Components in the package

Table 2.1 Components in the package

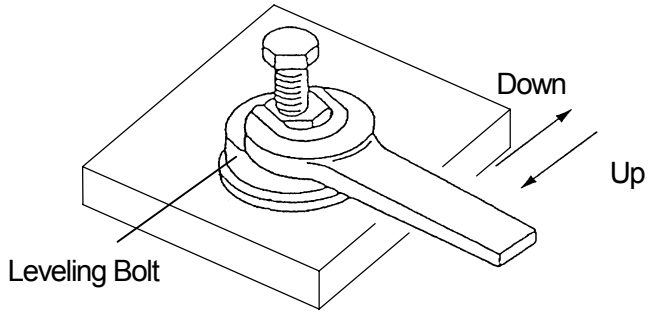
Unit of Packing	Quantity	
	Front Engine	Rear Engine
Engine	1	1
Accessory Box	1	-

2.1.2 Unpacking Procedures

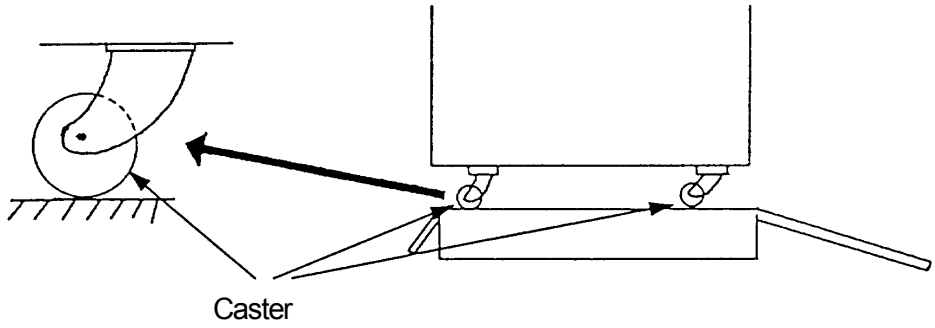
1) Cut the V Bands and remove the Cap.
2) Remove the screws.
3) Remove the Packing, Accessory box or Spacer Box, Ramps, Upper Packing.
4) Remove the Box, Corner Packing.



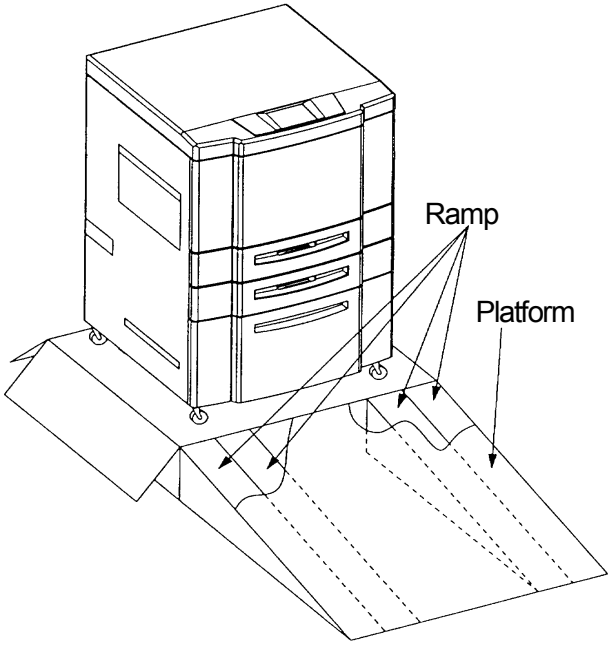
5) Jack up the Engine by rotating the leveling bolts.
Put the wood spacer (It is taken out from the accessories box.) under four leveling bolts.
Jack up the Engine by rotating the leveling bolts.



6) Remove the Base Packing.
7) Place all Casters in the same direction.



8) Lower the Engine on the Under Tray and screw the leveling bolts in all the way.
9) Attach the four Ramps under the Platform.
10) Carefully roll the Engine off the Tray.



2.1.3 Parts Check in the Accessory Box

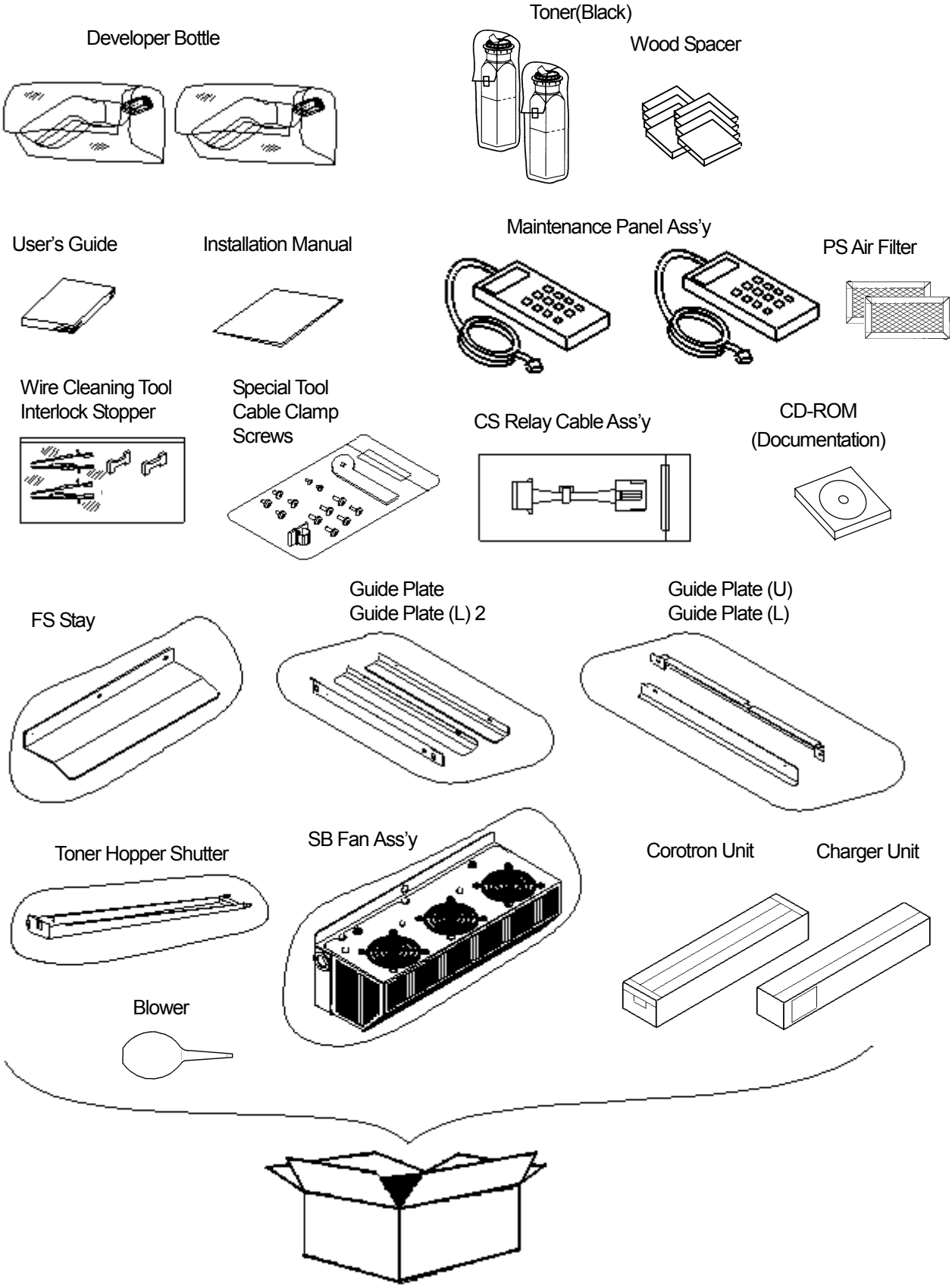


Table 2.2 Parts list in the Accessory Box

No.	Parts Name	Qty	Use
1	USER'S GUIDE	1	For Customer
2	DEVELOPER BOTTLE	2	For Developer exhaust
3	MAINTENANCE PANEL ASSY	2	For Customer Engineer
4	BLOWER	1	For Customer Engineer and Customer
5	WIRE CLEANING TOOL	2	For Customer Engineer
6	INTERLOCK STOPPER	2	For Customer Engineer
7	TONER(BLACK)	2	
8	SB FAN ASSY	1	
9	FS STAY	1	
10	GUIDE PLATE (U)	1	
11	GUIDE PLATE (L)	1	
12	GUIDE PLATE	2	
13	GUIDE PLATE (L) 2	1	
14	M4x8 SCREW	20	
15	M3x6 BIND SCREW	2	
16	M4x8 TAP SCREW	2	
17	CABLE CLAMP	1	
18	TONER HOPPER SHUTTER	1	For Toner Hopper exchange
19	CS RELAY CABLE ASSY	1	For Container Stacker connection
20	CD-ROM(DOCUMENTATION)	1	For Customer Engineer
21	INSTALLATION MANUAL	1	For Customer Engineer
22	SPECIAL TOOL	1	
23	CHARGER UNIT	1	
24	COROTRON UNIT	1	
25	WOOD SPACER	8	For Customer Engineer
26	PS AIR FILTER	2	

2.2 Unpacking of the Finisher

⚠ WARNING

1) **Be careful when unpacking using the crane or forklift. Do not to drop device, hit it against something, or turn it over on its side.**
2) **Perform unpacking where there is no dust or water leaking.**
3) **Do not place heavy objects which weigh 5 kg or more on device.**
4) **Be careful when lifting device with the forklift so device is well-balanced on the arms of the lift. Also put the packing (cushion) between device and forklift so device is not damaged.**
5) **Observe the speed limit of 300 mm/sec. (1.08 km/hr) when moving device. Do not move device on unleveled floor. Do not tilt device 15 ° or more.**
6) **Choose the location to place device where the slope is less than 15 °. (Only left and right direction from view of operator's side.)**
7) **Choose the location to place device where there is no condensation.**

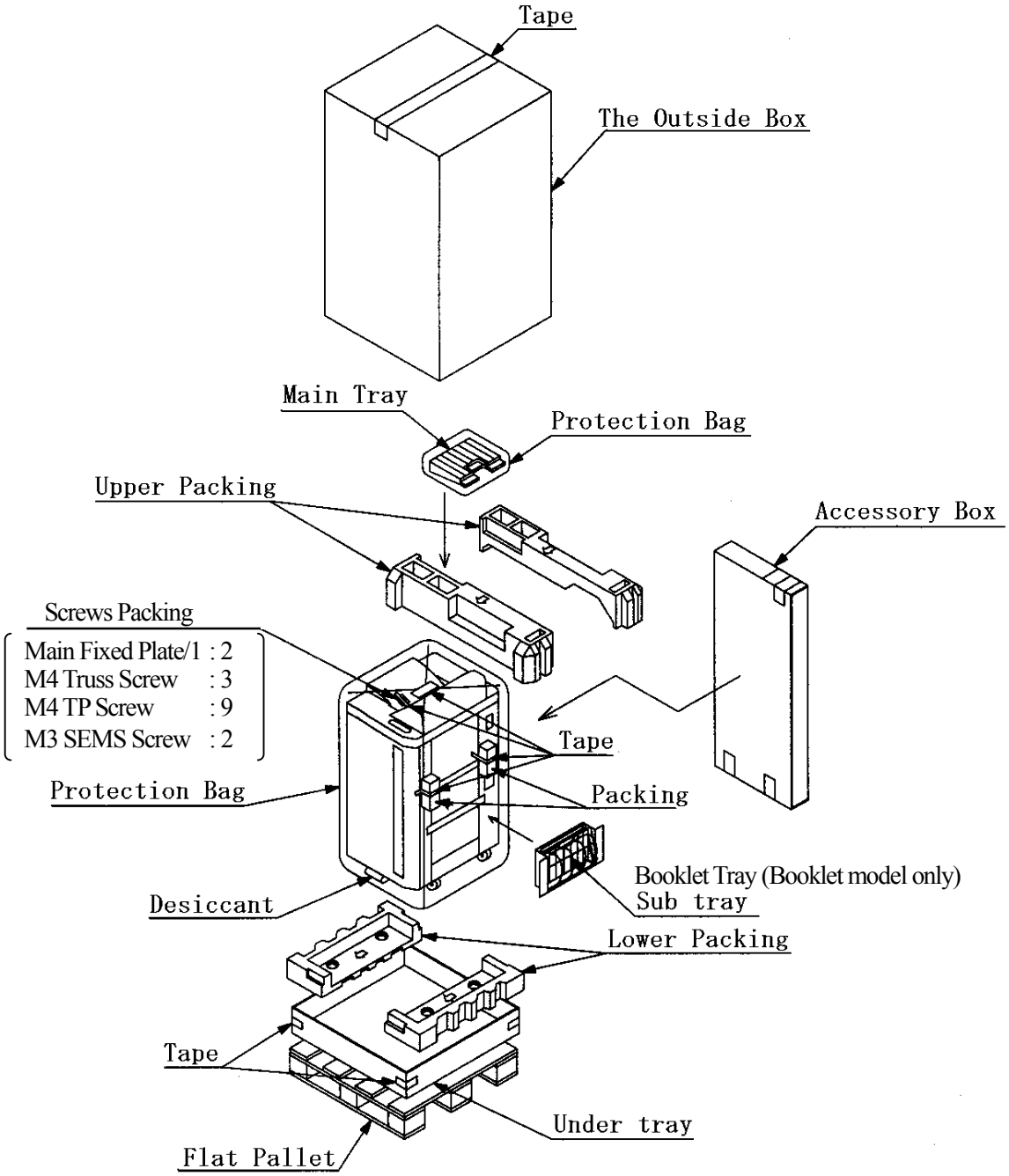
2.2.1 Components in the package

Table 2.3 Components in the package

Unit of Packing	Quantity
Finisher	1
Accessory Box	1

2.2.2 Unpacking Procedures

1) Cut the V Bands and remove the Outside Box.
2) Remove the two Upper packing, Accessory Box.
3) Remove the Tape of Protection Bag and take down the Protection Bag.
4) Carefully lift the Finisher by two persons and stand on Floor.



2.2.3 Parts Check in the Accessory Box

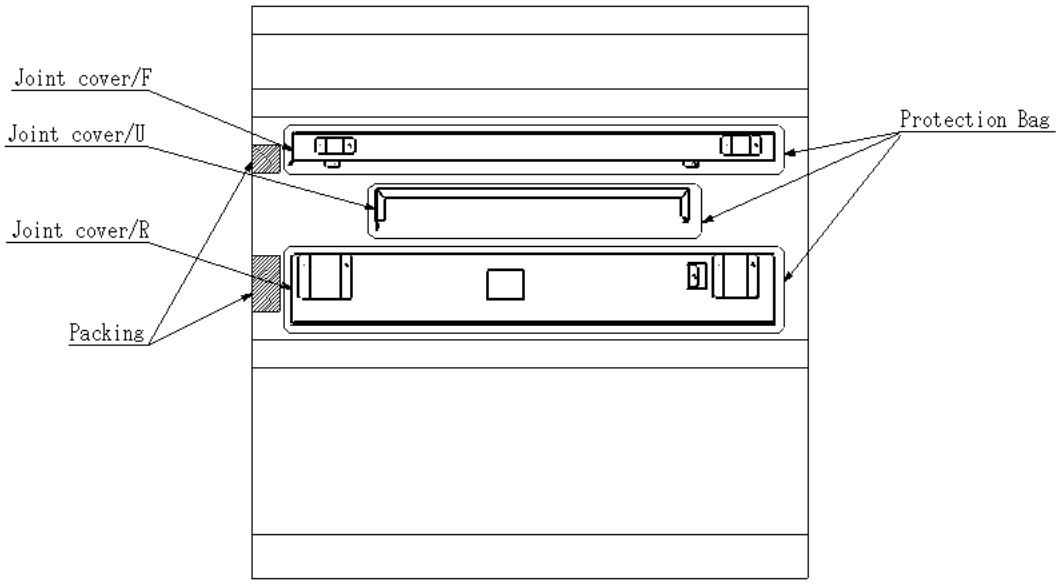


Table 2.4 Parts list in the Accessory Box

No.	Parts Name	Qty	Use
1	JOINT COVER /F	1	---
2	JOINT COVER /U	1	---
3	JOINT COVER /R	1	---

2.3 Unpacking of the Relay Unit

⚠ WARNING

1) **Be careful when unpacking using the crane or forklift. Do not to drop device, hit it against something, or turn it over on its side.**
2) **Perform unpacking where there is no dust or water leaking.**
3) **Do not place heavy objects which weigh 5 kg or more on device.**
4) **Be careful when lifting device with the forklift so device is well-balanced on the arms of the lift. Also put the packing (cushion) between device and forklift so device is not damaged.**
5) **Observe the speed limit of 300 mm/sec. (1.08 km/hr) when moving device. Do not move device on unleveled floor. Do not tilt device 15 ° or more.**
6) **Choose the location to place device where the slope is less than 15 °. (Only left and right direction from view of operator's side.)**
7) **Choose the location to place device where there is no condensation.**

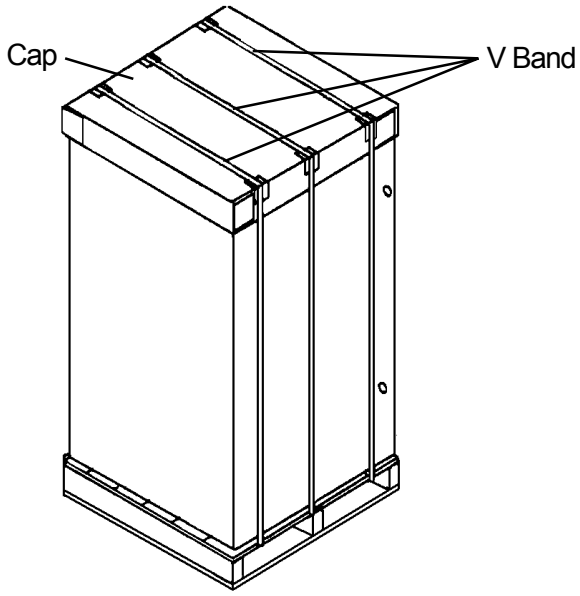
2.3.1 Components in the package

Table 2.5 Components in the package

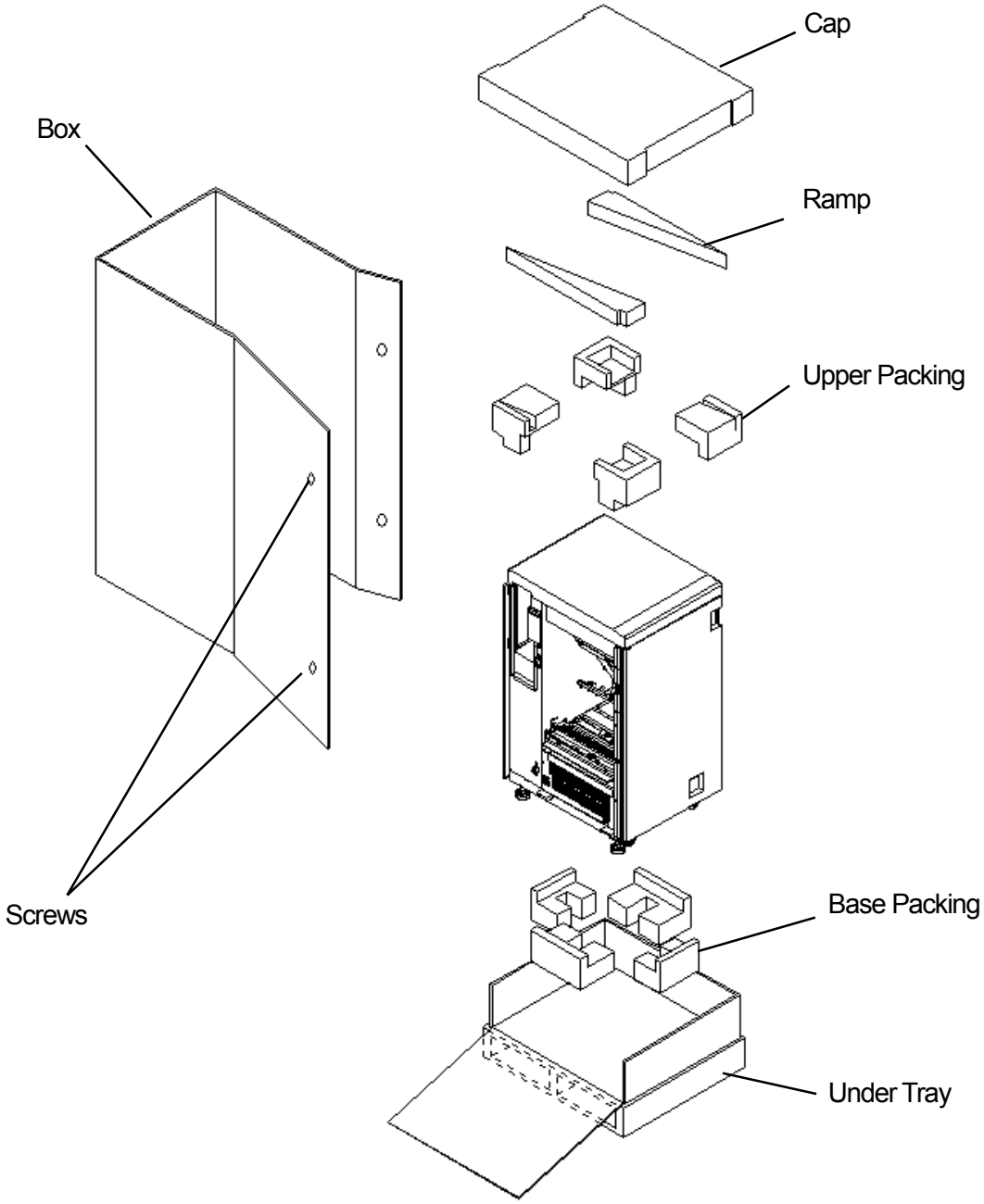
Unit of Packing	Quantity
Relay Unit	1

2.3.2 Unpacking Procedures

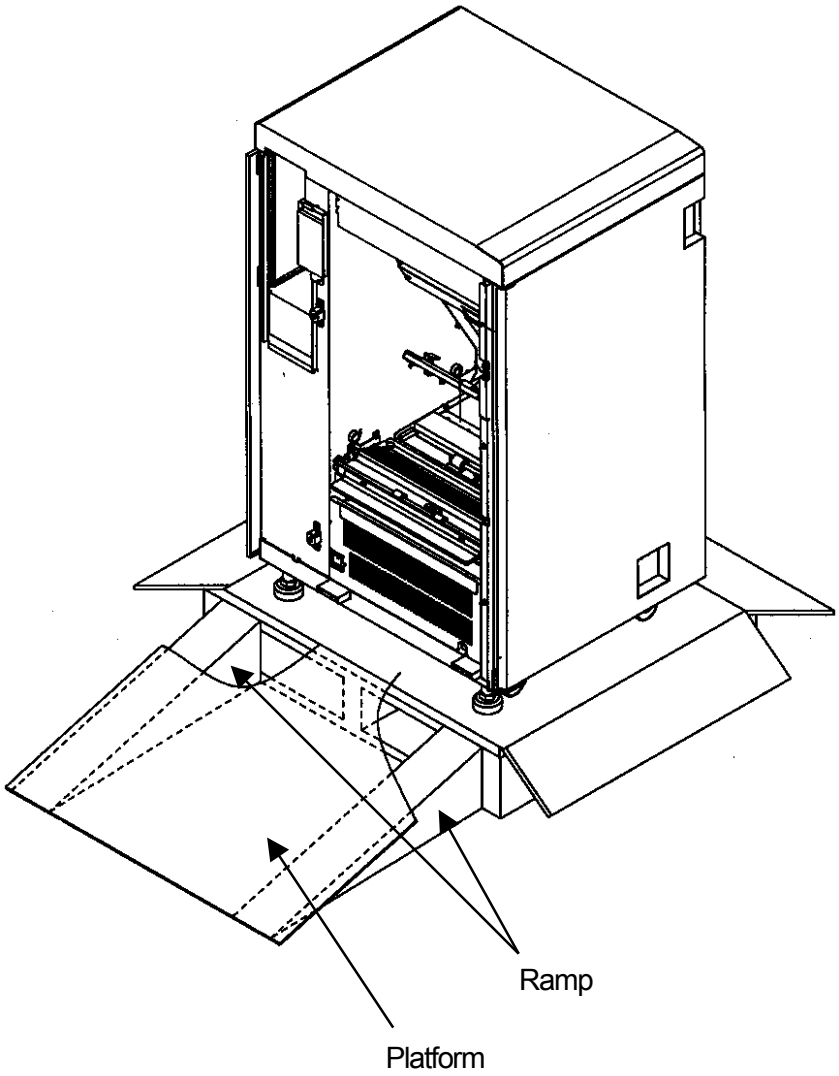
1) Cut the V Bands and remove the Cap.



2) Remove the screws.
3) Remove the Ramps and Upper Packing.
4) Remove the Box and Base Packing.



5) Attach the two Ramps under the Platform.
6) Carefully roll the Relay Unit off from the Tray.



2.4 Unpacking of the Server

WARNING

1) **Perform unpacking where there is no dust or water leaking.**
2) **Do not place objects on device.**
3) **Observe the speed limit of 300 mm/sec. (1.08 km/hr) when moving device. Do not move device on unleveled floor. Do not tilt device 15 ° or more.**
4) **Choose the location to place device where the slope is less than 15 °.**
5) **Choose the location to place device where there is no condensation.**

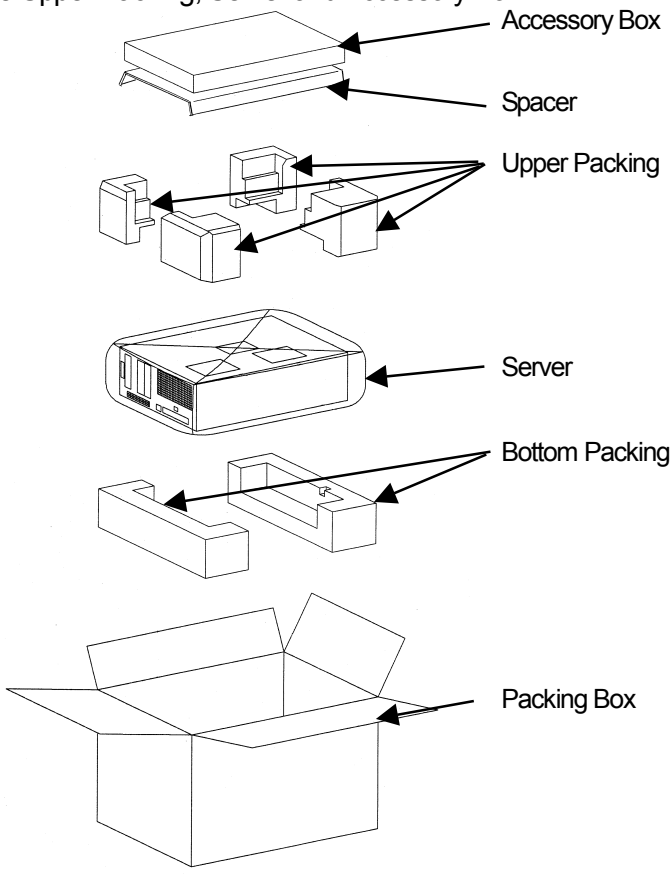
2.4.1 Components in the package

Table 2.6 Components in the package

Unit of Packing	Quantity
Server	1
Accessory Box	1

2.4.2 Unpacking Procedures

1) Cut the Tape of the Packing Box.
2) Remove the Upper Packing, Server and Accessory Box.



2.4.3 Parts Check in the Accessory Box

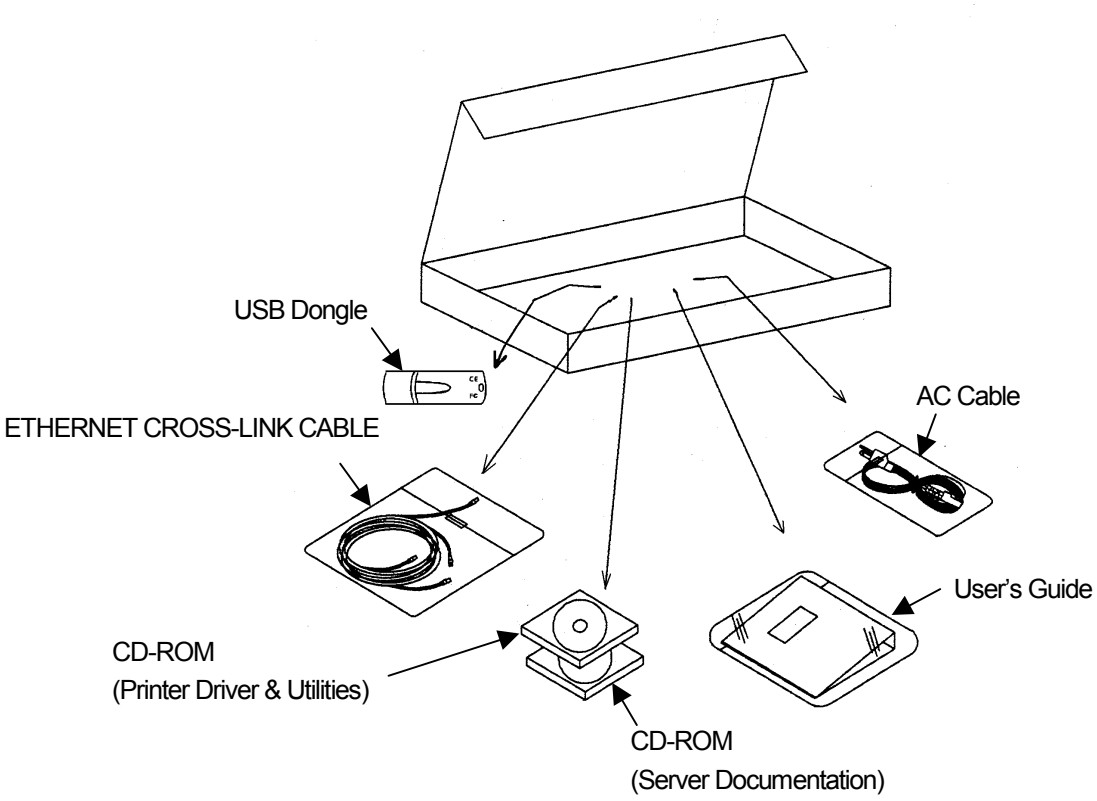


Table 2.7 Parts list in the Accessory Box

No.	Parts Name	Qty	Use
1	AC CABLE	1	
2	ETHERNET CROSS-LINK CABLE	2	
3	USB DONGLE	1	
4	USER'S GUIDE	1	
5	CD-ROM	1	Printer Driver & Utilities
6	CD-ROM	1	Server Documentation

2.5 Unpacking of the High Capacity Hopper

⚠ WARNING

1) **Perform unpacking where there is no dust or water leaking.**
2) **Do not place heavy objects which weight 5 kg or more on device.**
3) **Observe the speed limit of 300 mm/sec. (1.08 km/hr) when moving device. Do not move device on unleveled floor. Do not tilt device 15 ° or more.**
4) **Choose the location to place device where the slope is less than 15 °. (Only left and right direction from view of operator's side.)**
5) **Choose the location to place device where there is no condensation.**

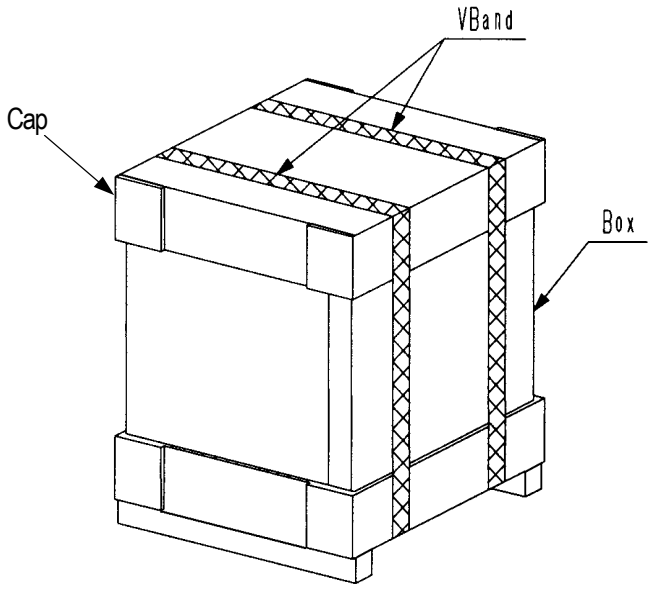
2.5.1 Confirmation of Parts Quantities

Table 2.8 Components in the package

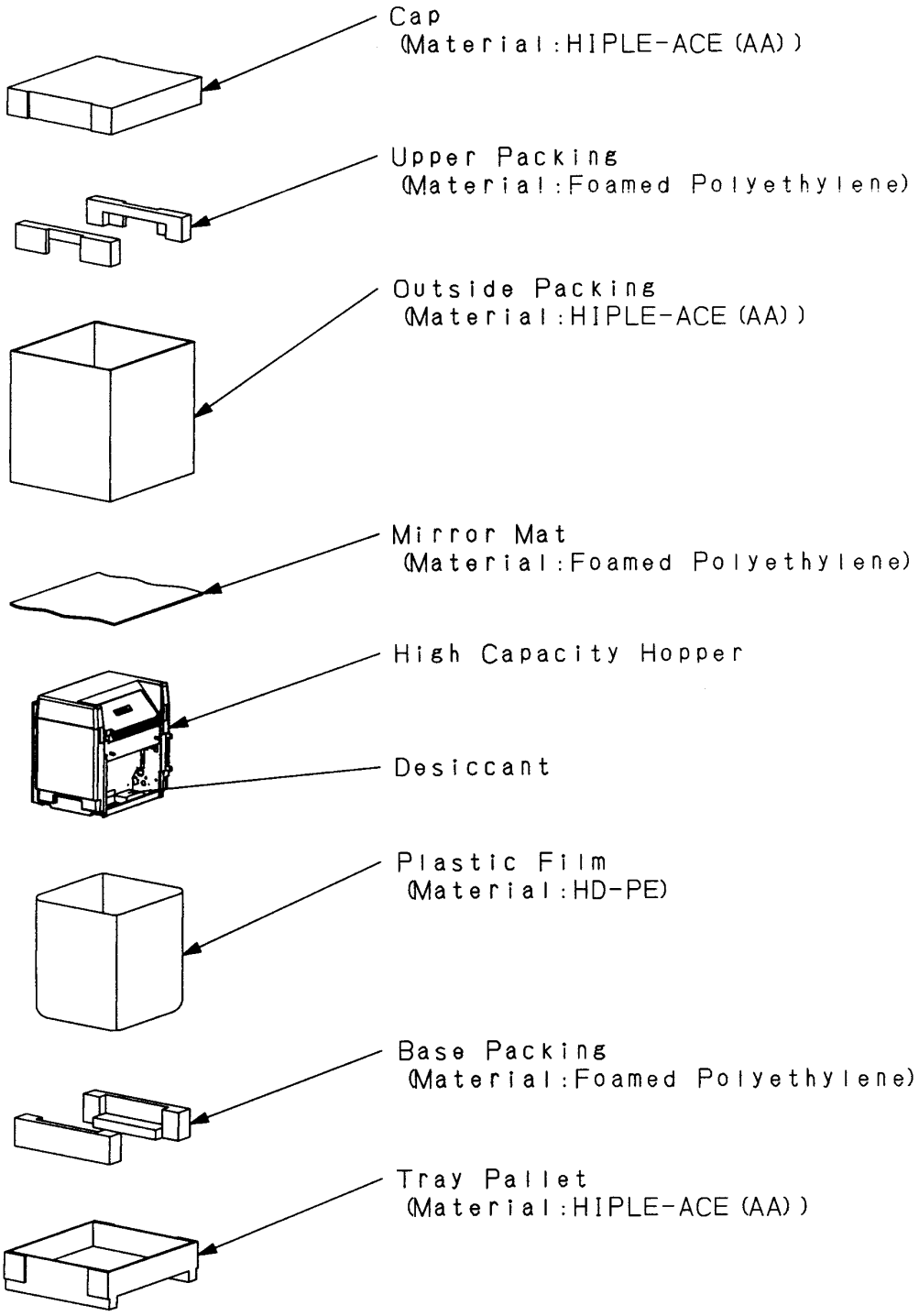
Unit of Packing	Quantity
High Capacity Hopper	1

2.5.2 Unpacking Procedures

1) Cut the V Bands and remove the Cap.



2) Remove the two Upper Packing, Outside Packing.
3) Remove the High Capacity Hopper.



2.6 Unpacking of the Container Stacker 1 or 2

⚠ WARNING

1) **Be careful when unpacking using the crane or forklift. Do not to drop device, hit it against something, or turn it over on its side.**
2) **Perform unpacking where there is no dust or water leaking.**
3) **Do not place heavy objects which weigh 5 kg or more on device.**
4) **Be careful when lifting device with the forklift so device is well-balanced on the arms of the lift. Also put the packing (cushion) between device and forklift so device is not damaged.**
5) **Observe the speed limit of 300 mm/sec. (1.08 km/hr) when moving device. Do not move device on unleveled floor. Do not tilt device 15 ° or more.**
6) **Choose the location to place device where the slope is less than 15 °.**
7) **Choose the location to place device where there is no condensation.**

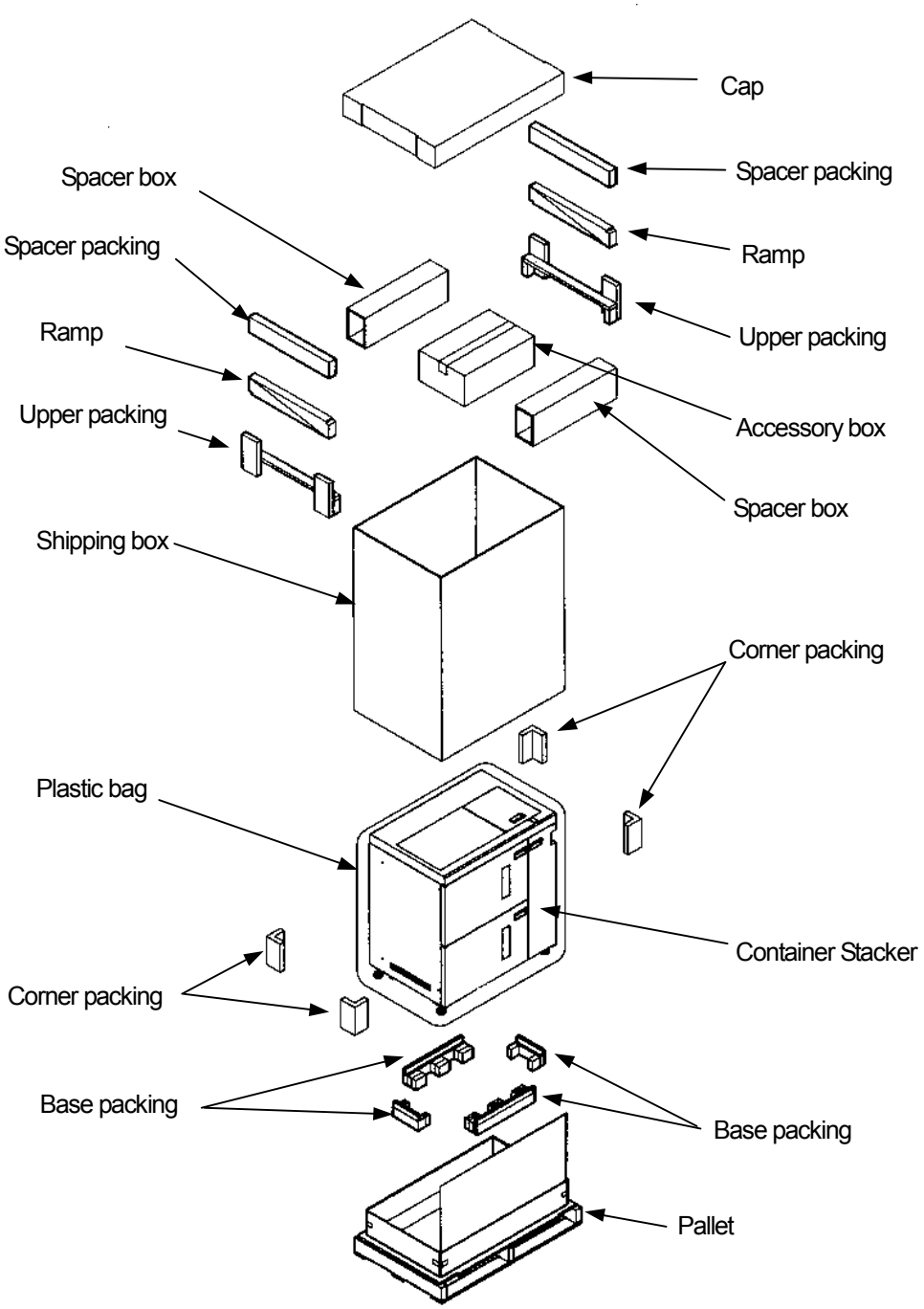
2.6.1 Confirmation of Parts Quantities

Table 2.9 Components in the package

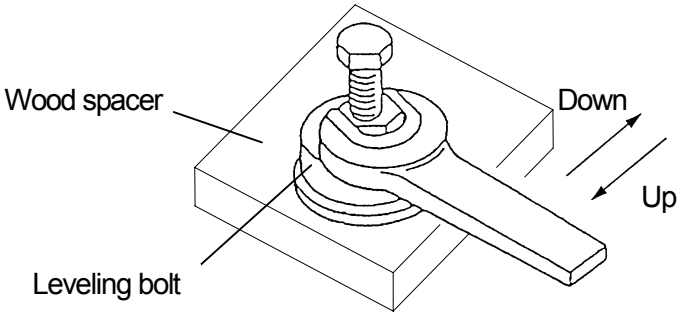
Unit of Packing	Quantity
Container Stacker 1 or Container Stacker 2	1
Accessory box	1

2.6.2 Unpacking Procedures

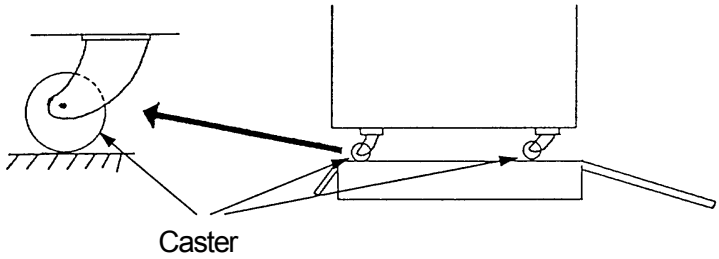
1) Remove the V band from the shipping box using a cutter and remove the cap.
2) Remove the accessory box, spacer box, spacer packing, ramp, and upper packing.
3) Remove the shipping box, P.P band and four corner packing.
4) Peeling off the adhesive tapes, remove the plastic bag.
5) Cut the tape for corner on pallet, and push down the side of pallet to outside.



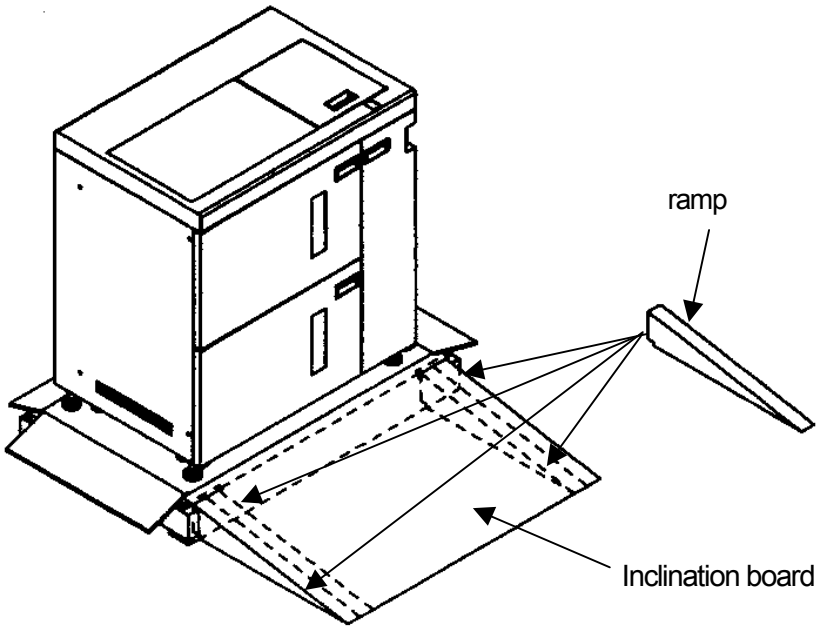
6) Remove the tape for leveling bolt, and take out four wood spacers from accessory box, it puts on the bottom of leveling bolts (under plastic bag), turned the leveling bolt by using the Adjustable Open End Wrench, and raised the Container Stacker.
7) Remove the four base packing.



8) Turned the all casters in the same direction.



9) Install the ramp to the bottom of an inclination board. (Ramp is two pieces to both sides).



10) Raised the leveling bolt and remove the wood spacer.
11) Carefully lift down the Container Stacker on the floor.

2.6.3 Parts Check in the Accessory Box

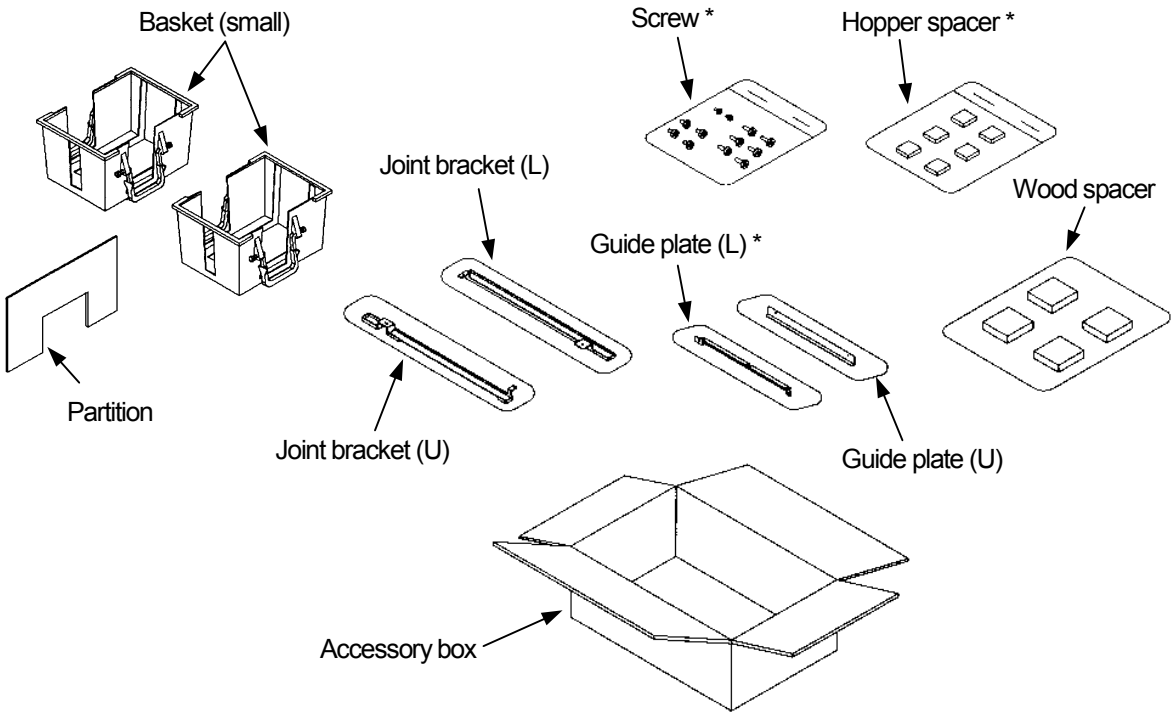


Table 2.10 Parts list in the Accessory Box

No.	Parts Name	Qty	Note
1	JOINT BRACKET (L)	1	
2	JOINT BRACKET (U)	1	
3	GUIDE PLATE (L)	1	
4	GUIDE PLATE (U)	1	
5	BASKET (SMALL)	2	
6	HOPPER SPACER	6	
7	WOOD SPACER	4	
8	SCREW	12	(1) M3 x 8 2 pieces (2) M4 x 8 4 pieces (3) M4 x 12 6 pieces

[Note]

* In the case of composition of that the Container Stacker 1 and 2 connect, the Hopper Spacer and the Guide plate (L) and the two M3 x 8 Screws in one of the two Accessories are not used.

2.7 Unpacking of the Cover Sheet Feeder

(Use only FS-108H & FS-108HBM, No RoHS Compliance Unit)

⚠ WARNING

Perform unpacking where there is no dust or water leaking.

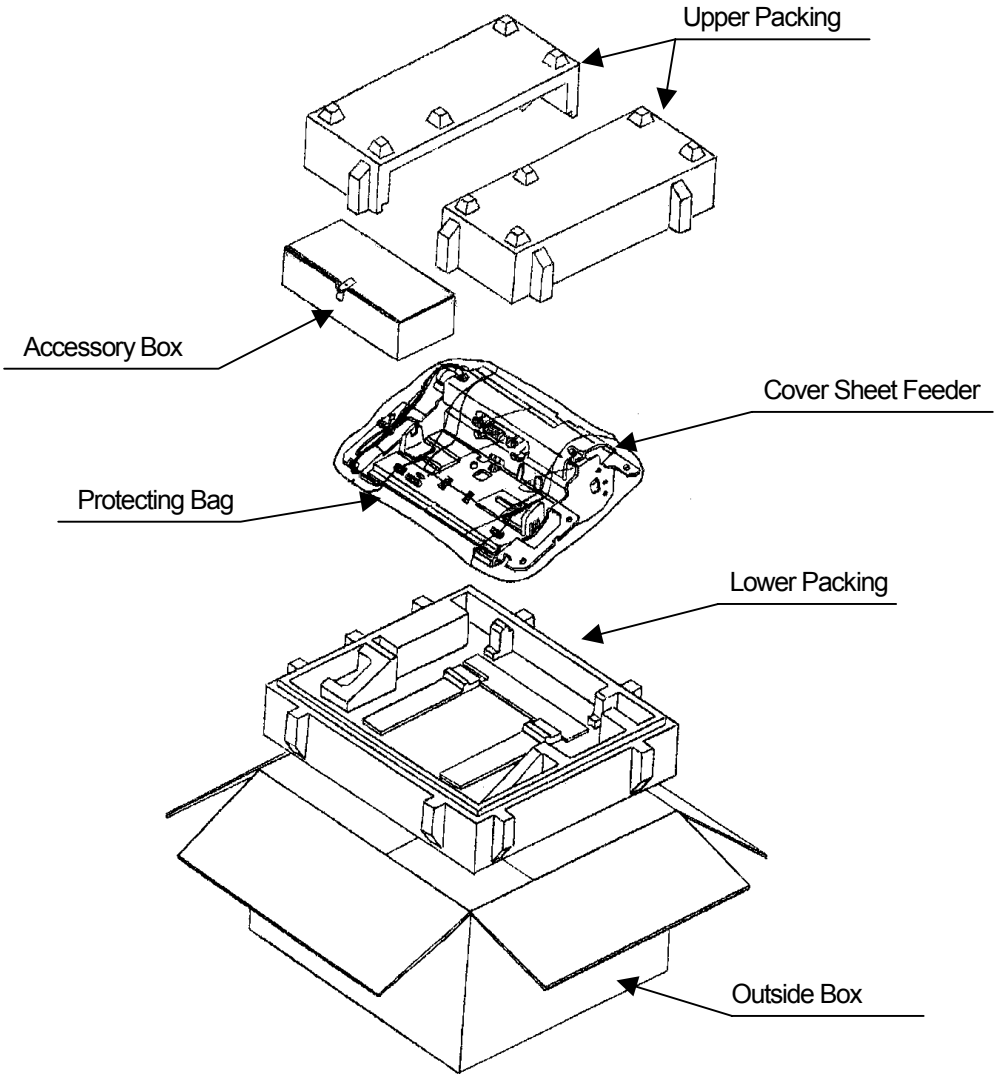
2.7.1 Components in the package

Table 2.11 Components in the package

Unit of Packing	Quantity
Cover Sheet Feeder	1
Accessory Box	1

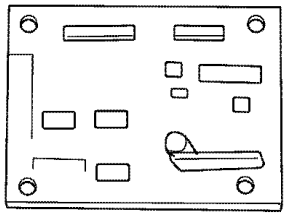
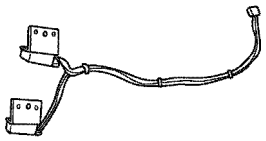
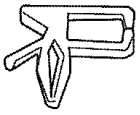
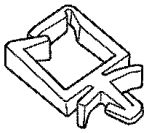
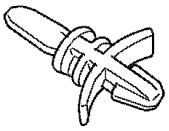
2.7.2 Unpacking Procedures

1) Remove the Outside Box.
2) Remove the two Upper packing, Accessory Box.
3) Remove the Tape of Protection Bag and take down the Protection Bag.



2.7.3 Parts Check in the Accessory Box

Table 2.12 Parts list in the Accessory Box

No.	Name	Shape	Quantity
1	PI-108H P/K		1
2	Pre sensor assay		1
3	Guide axis		1
4	Miniclamp		2
5	Locking wire saddle		5
6	Locking stopper		4
7	Nylon clamp		3
8	M3 x 8 Tapping screw with washer		5
9	M4 x 6 TP screw		6

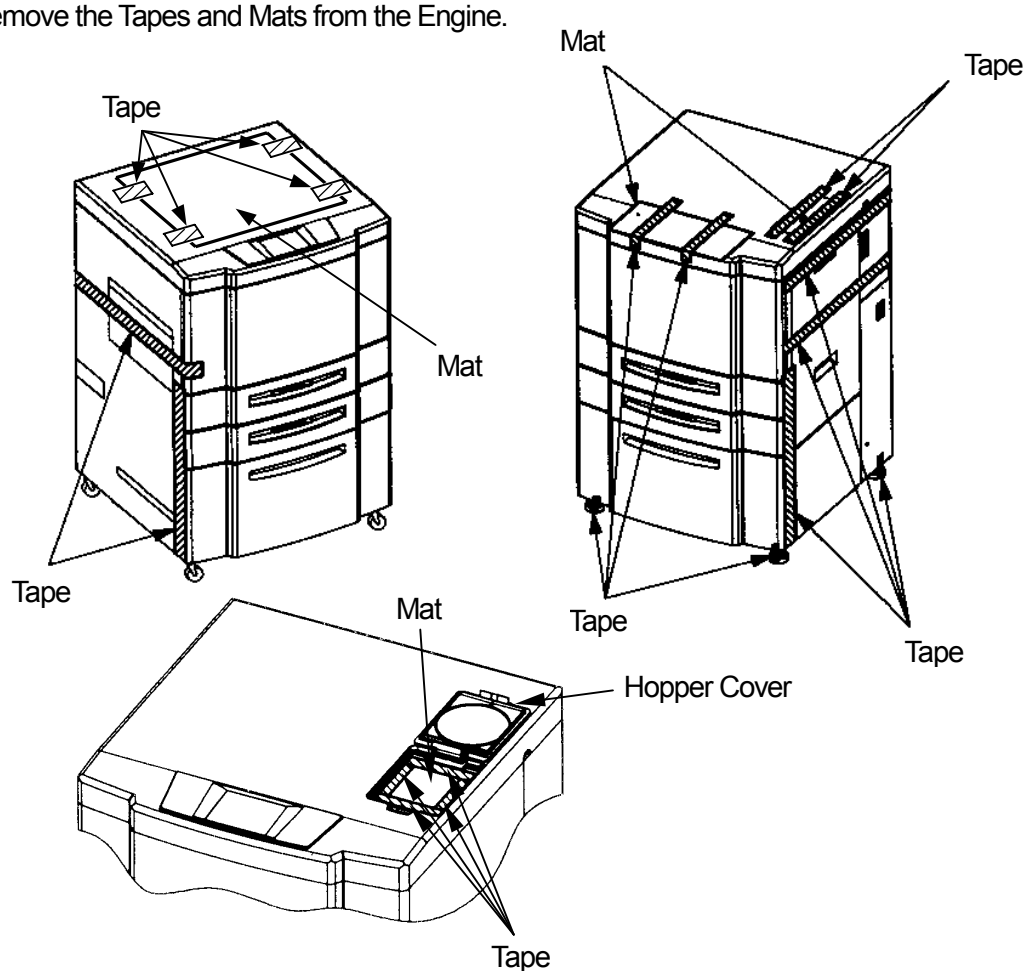
BLANK

Chapter 3. Preparation for Installation

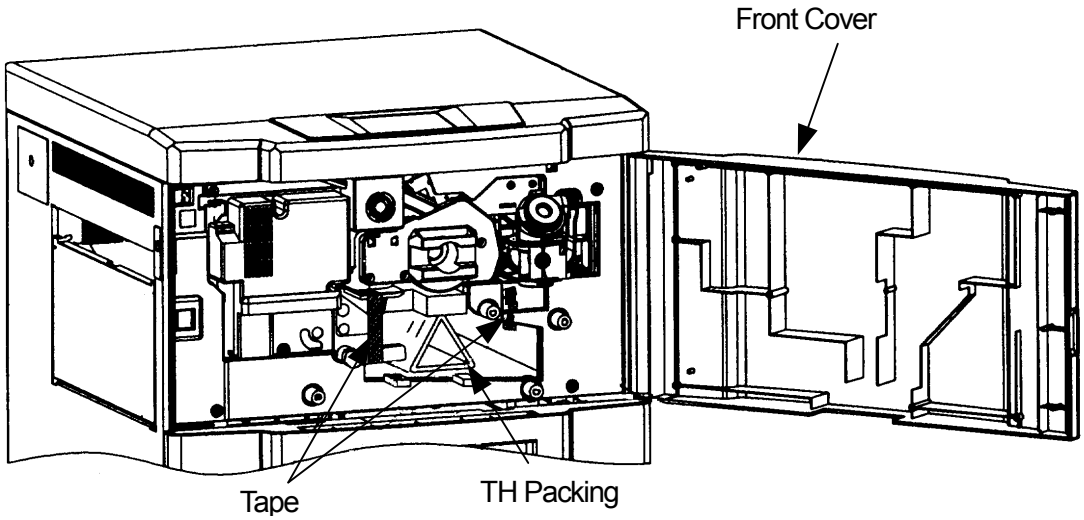
3.1 Preparation for Installation of the Printer

3.1.1 Removing the Protection Tape and Mat from the Front and Rear Engine

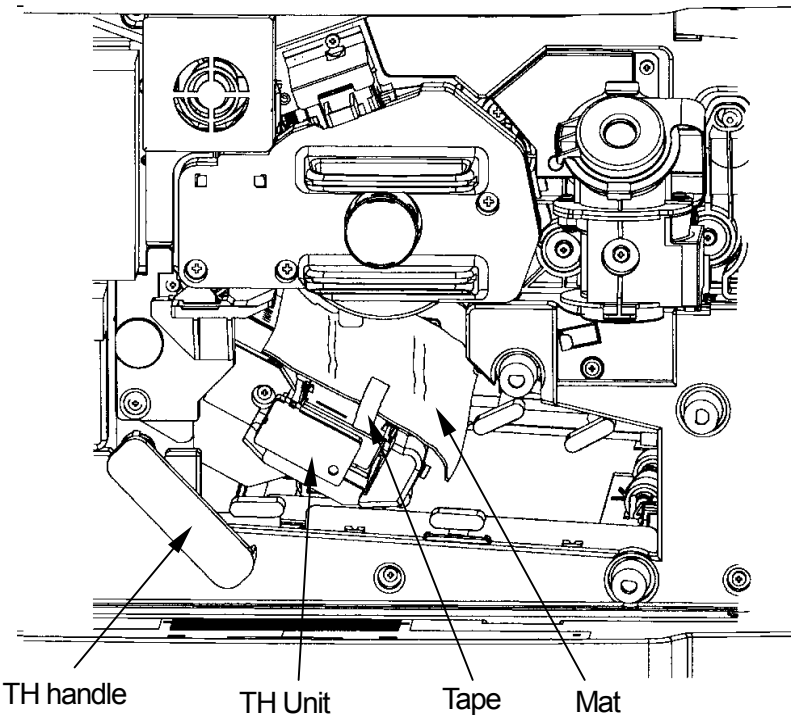
1) Remove the Tapes and Mats from the Engine.



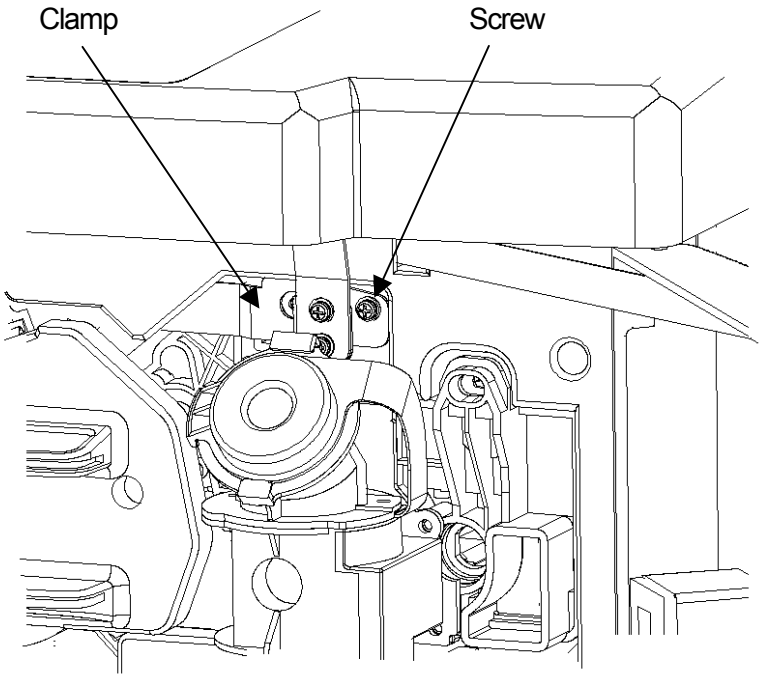
2) Open the Front Cover.
3) Remove the Tapes and TH Packing.



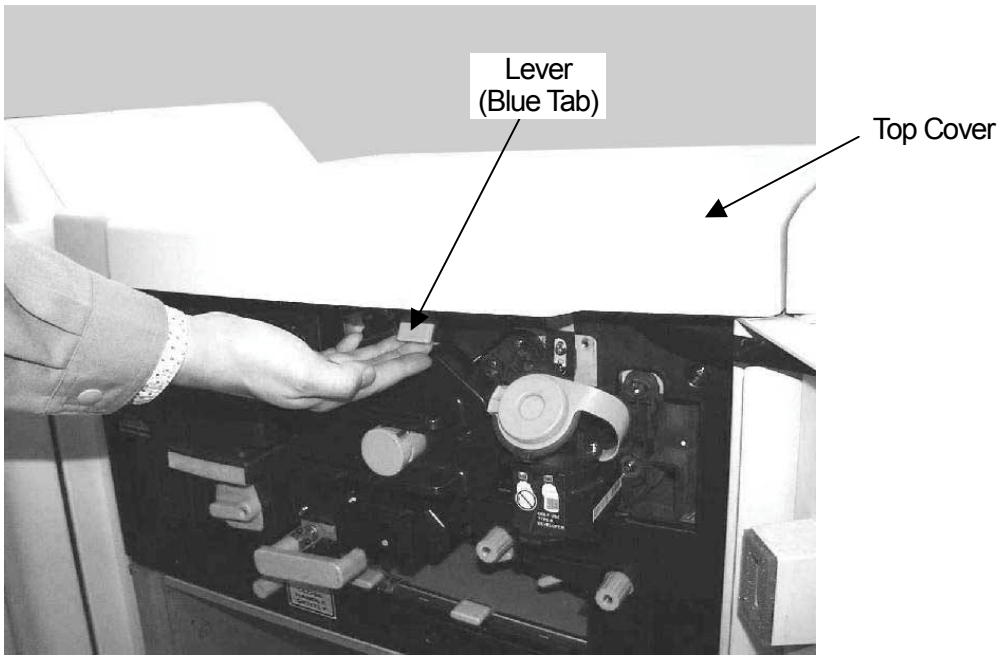
4) Turn the TH handle clockwise to open the TH Unit.
5) Remove the Tapes and Mat.



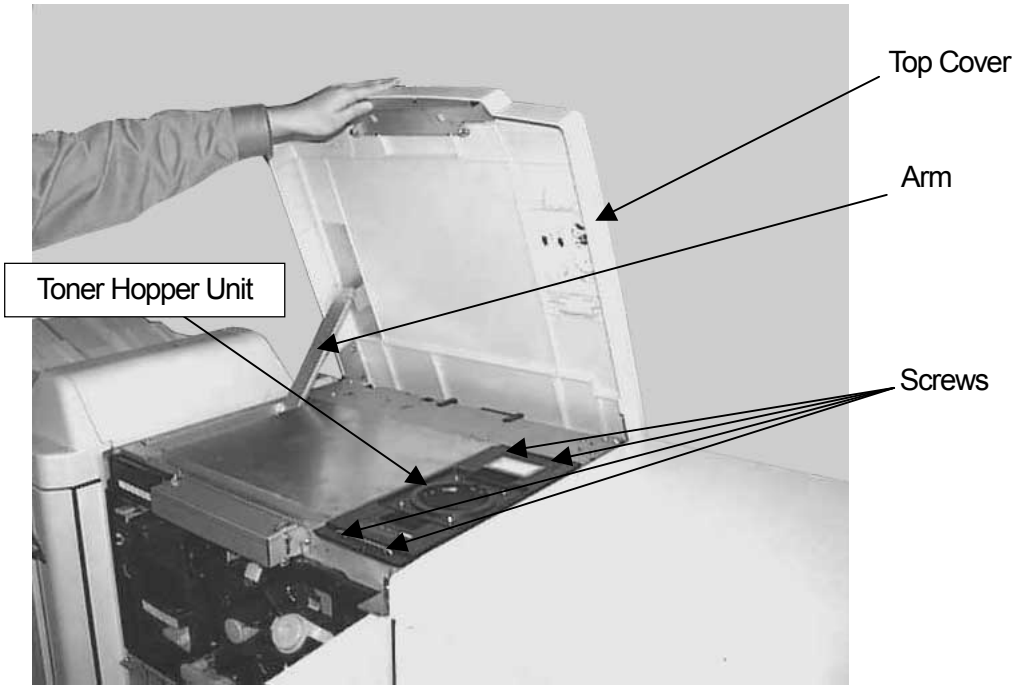
6) Turn the TH Handle counterclockwise to close the TH Unit.
7) Remove the M4 screw and Clamp for transportation. (Only Rear Engine)



8) Pull the Lever to open the Top Cover. (Only Rear Engine)

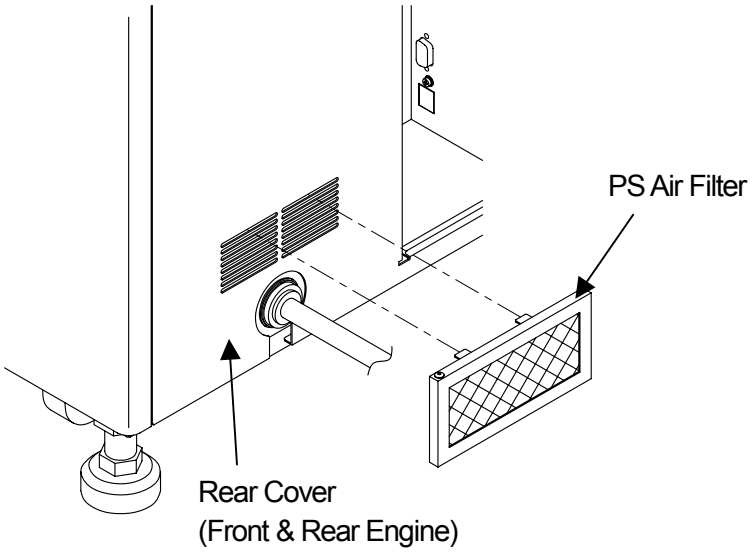


9) Lift the Top Cover until it locks into place.
10)Remove the four screws which fix the Toner Hopper Unit on to the frame.
11)Lift the Arm and close the Top Cover.

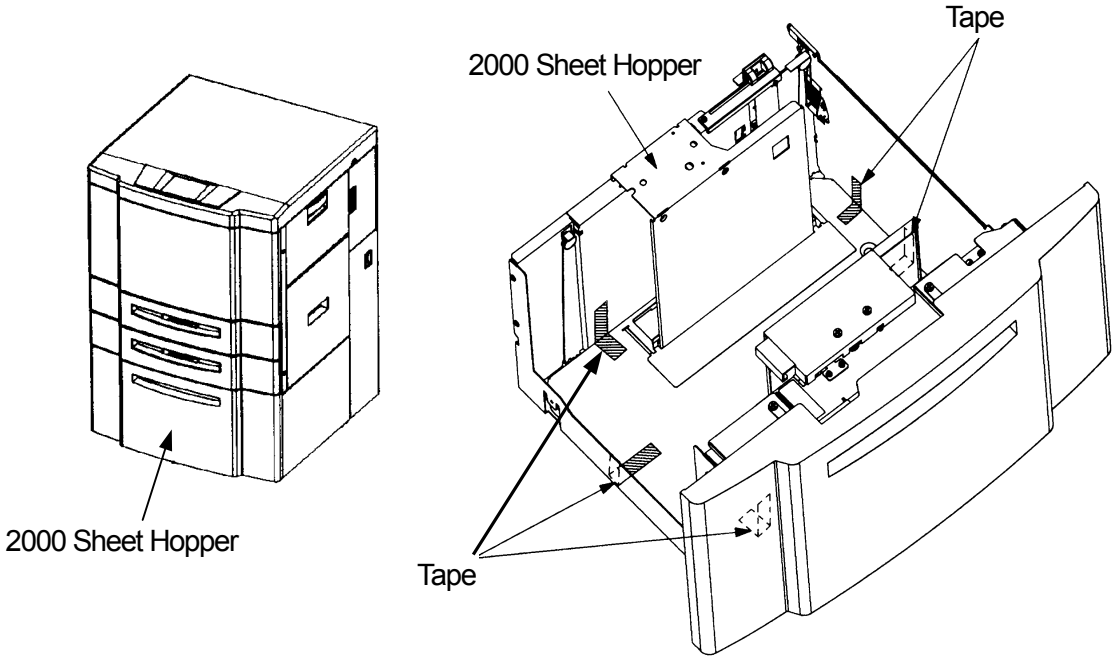


3.1.2 Set the PS Air Filter for the Engine Rear Cover

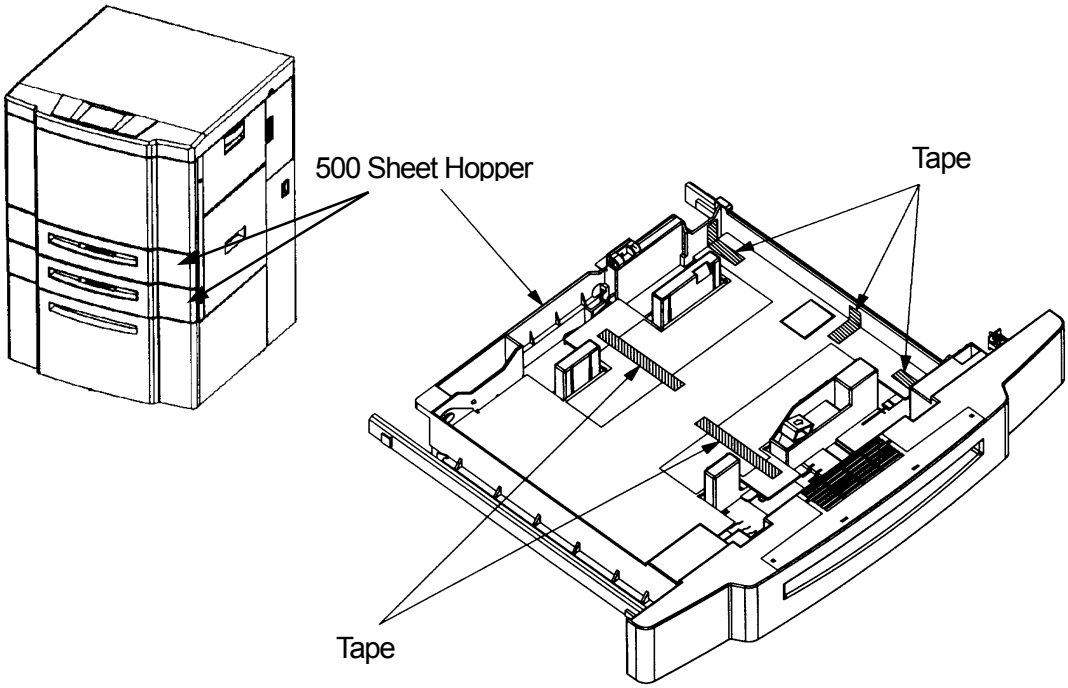
1) Take out two PS Air Filter from Accessory Box.
2) Install PS Air Filter to each Rear Cover of the Front and the Rear Engine.
   (Refer to shown below)



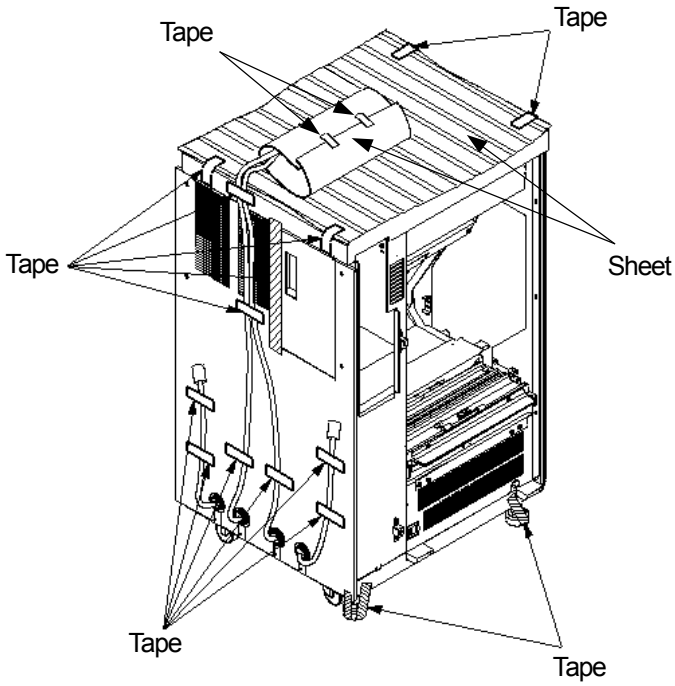
3.1.3 Removing the Protection Tape from 2000 Sheet Hopper. (Only Front Engine)

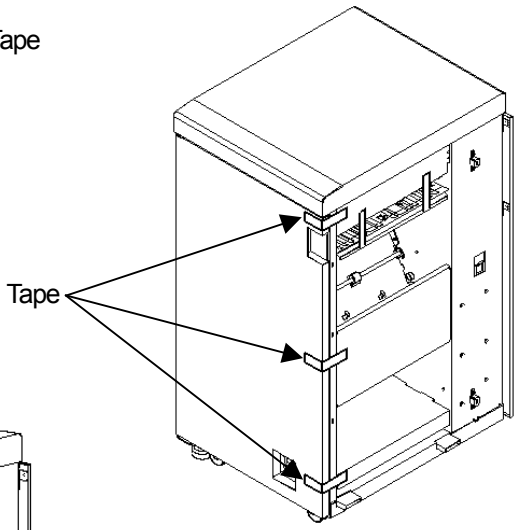


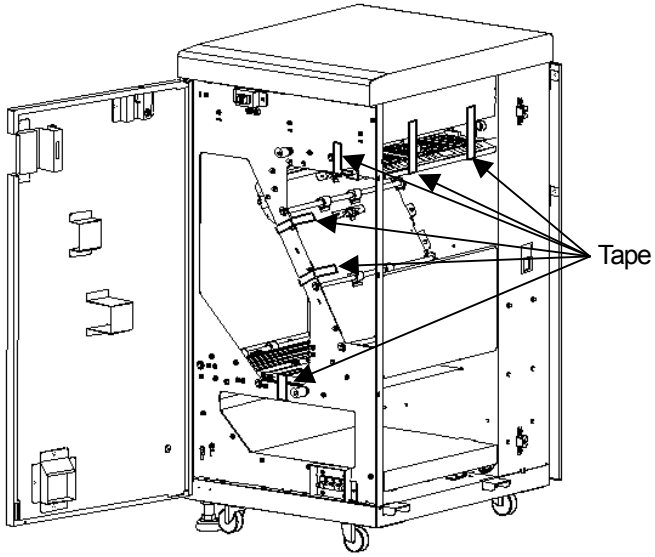
3.1.4 Removing the Protection Tape from 500 Sheet Hopper (Only Front Engine) ; 2 portion



3.1.5 Removing the Protection Tape from the Relay Unit

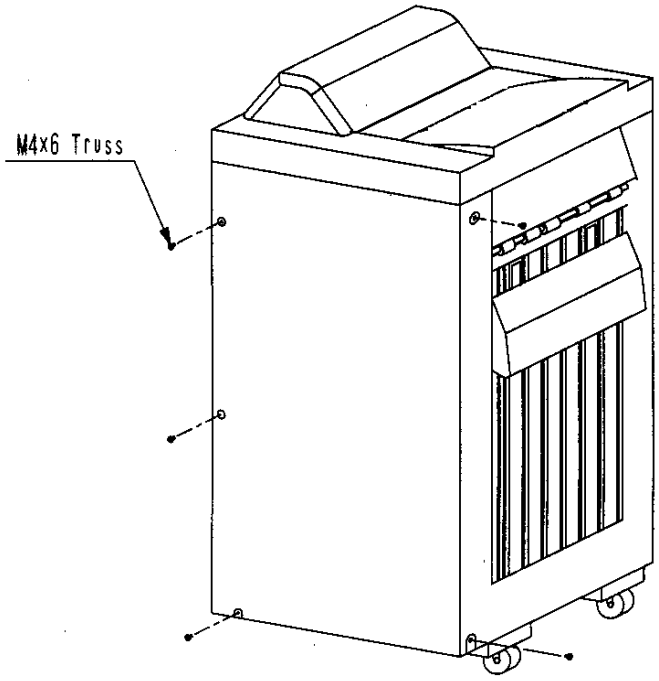




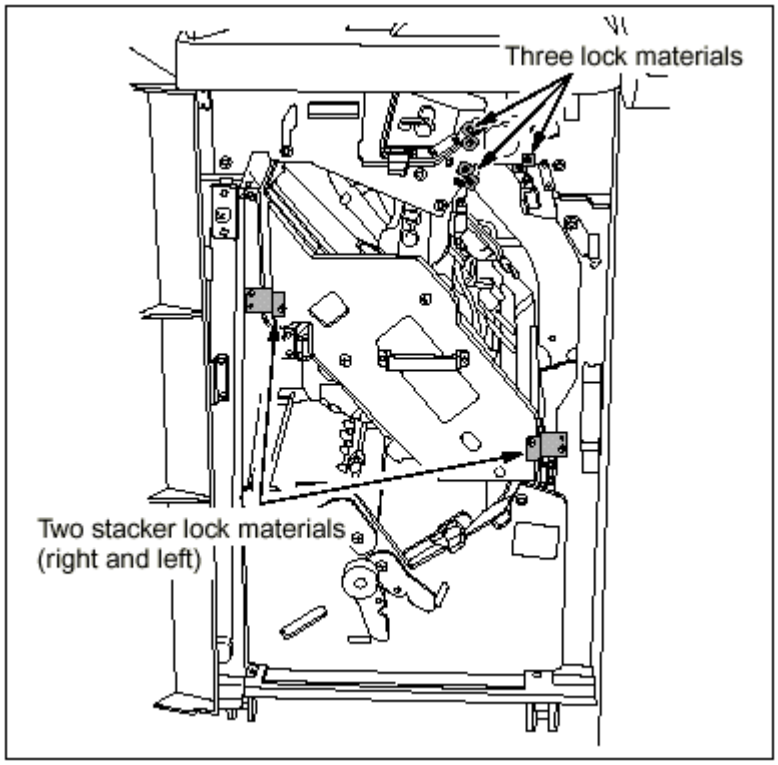


3.2 Preparation for Installation of the Finisher

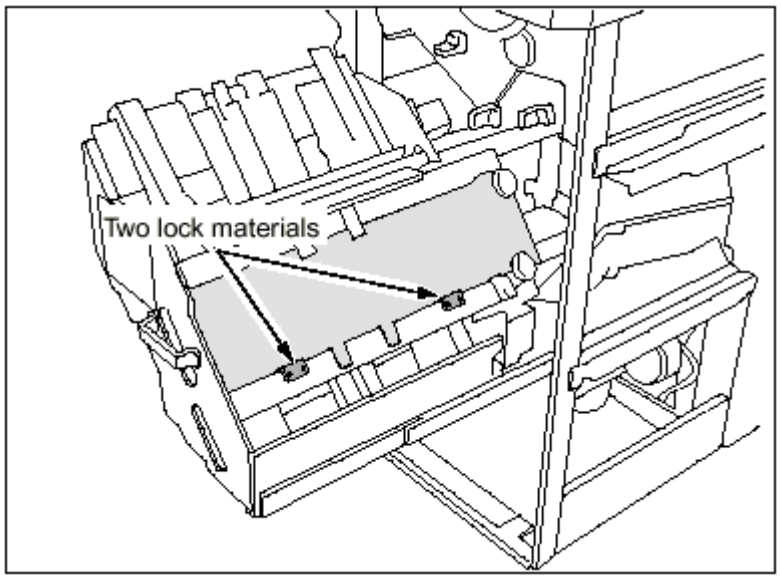
1) Unscrew the five screws to remove the Rear cover of the Finisher.



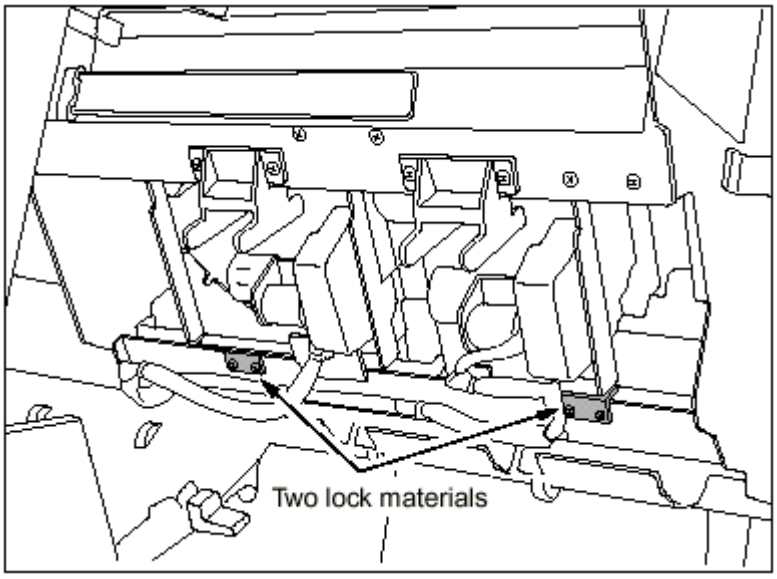
2) Remove three lock materials from each guide plate.
3) Remove two stacker lock materials (right and left).



4) Remove two lock materials inside the stacker (on the side to be joined to the main body).



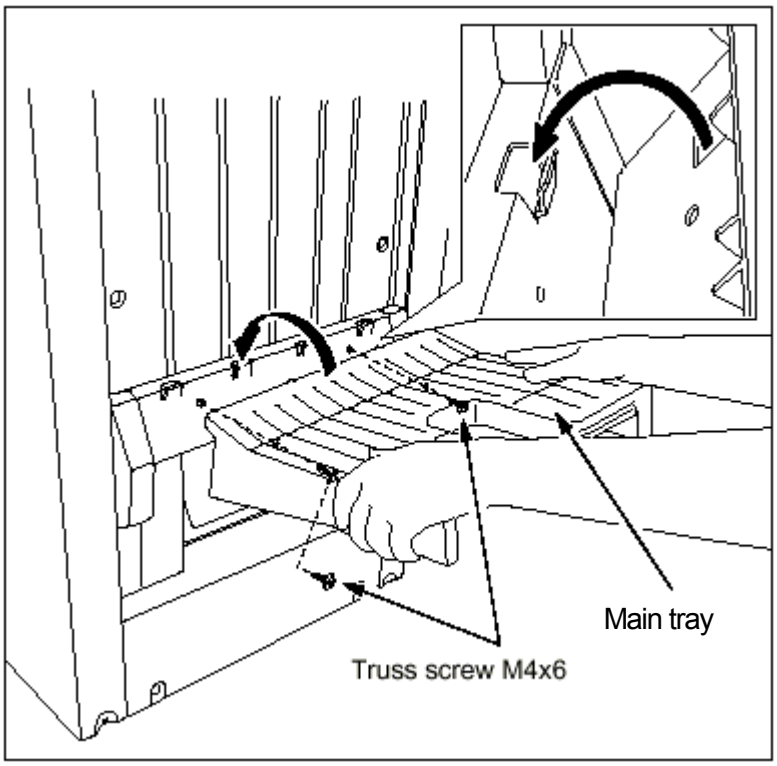
5) Remove two lock materials inside the stacker (lower).



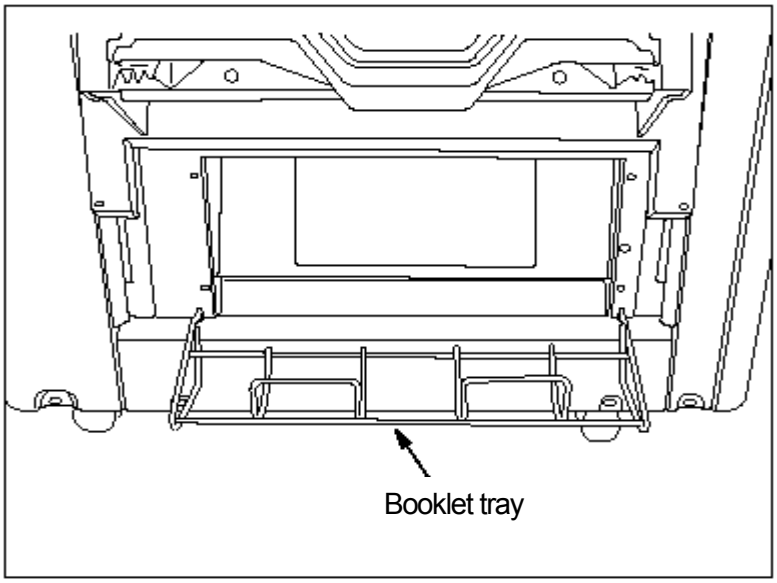
6) Install the Main tray on the up-down portion (paper exit side) of the Finisher.
(Truss screw M4x6: 2)

CAUTION

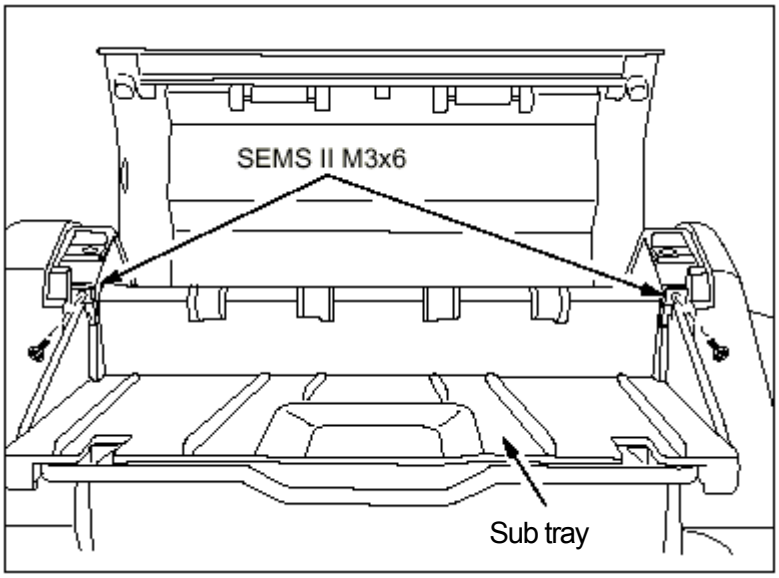
When installing the Main tray, fit the four auxiliary fittings to the guide holes of the Main tray before fixing screws.



7) Install the paper exit tray (lower) on the lower up-down portion (paper exit side) of the Finisher.
(Use only FS-108HBM, No RoHS Compliance Unit)

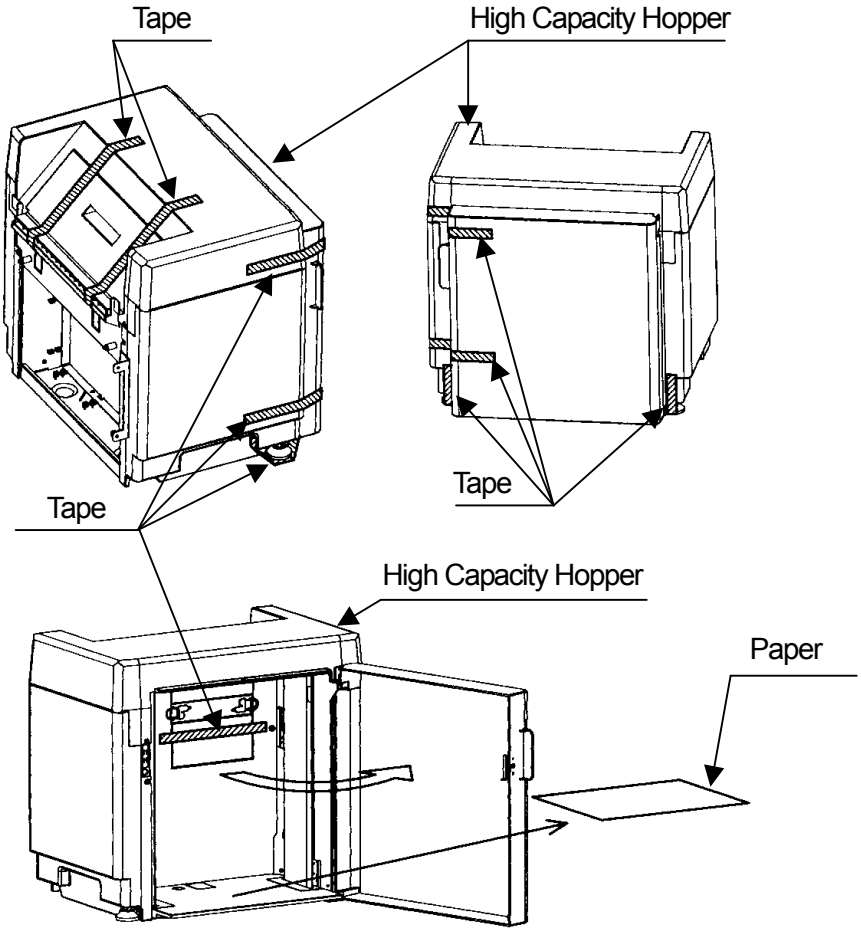


8) Install the Sub tray on the secondary exit portion, then fix it with screws. (SEMS II M3x6: 2)

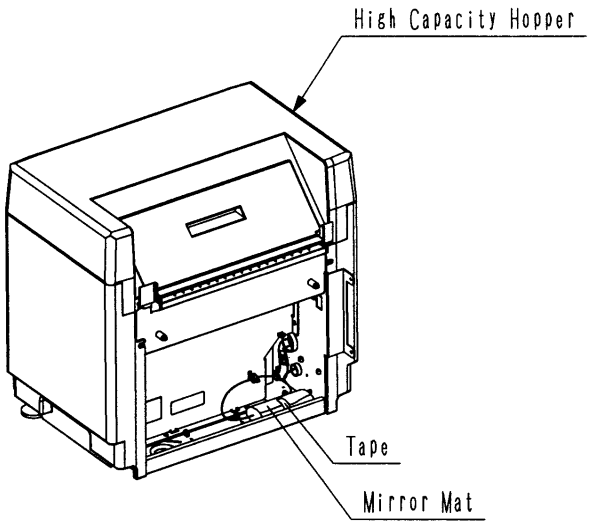


3.3 Preparation for Installation of the High Capacity Hopper

1) Remove the Protection Tapes from the High Capacity Hopper.
2) Remove the Paper.



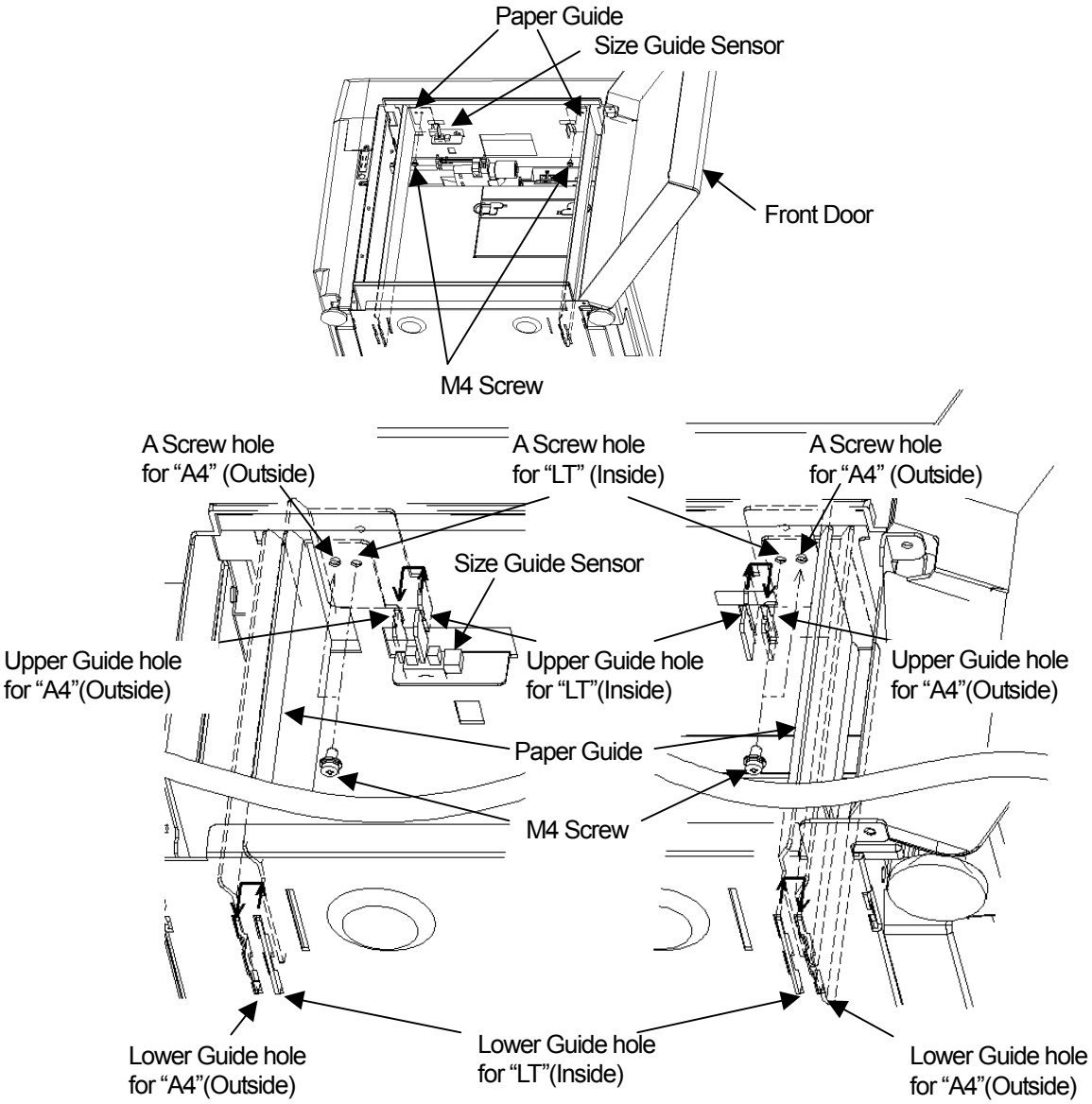
3) Remove the Protection Tape and Mirror Mat from the High Capacity Hopper.



4) Confirm the Paper Guide position of the High Capacity Hopper. (LT or A4)
Usually, Paper Guide position is set in “LT” at the shipment. When the customer wish to use the High Capacity Hopper in A4 paper, change the Paper Guide position according to the following steps.

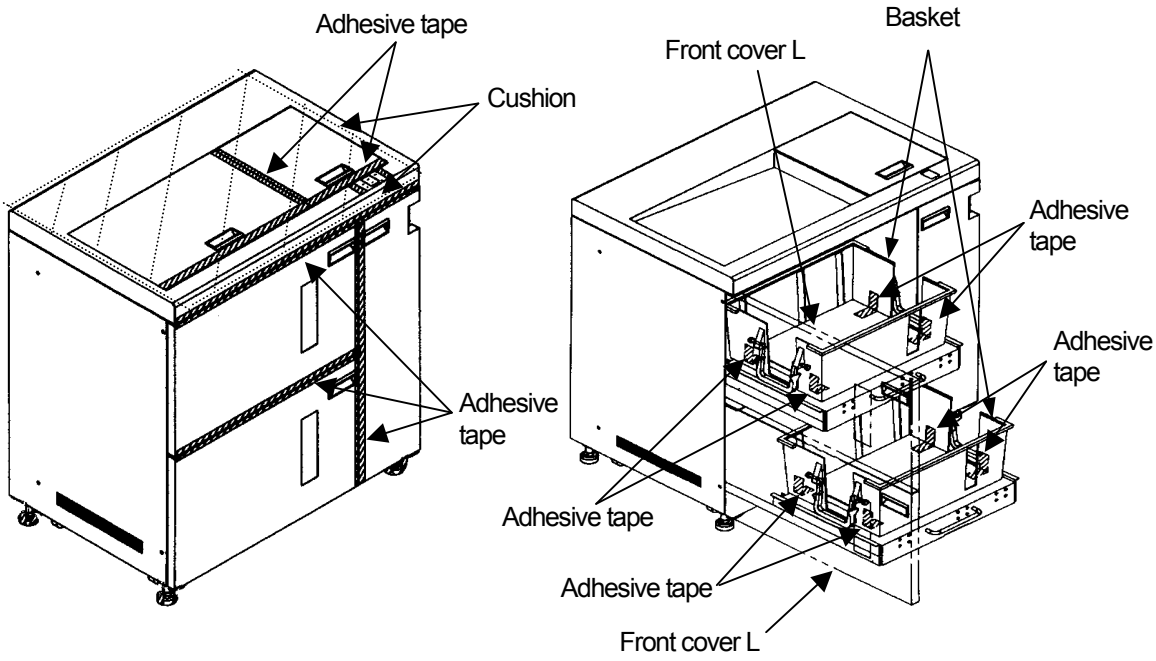
[Change procedure of the Paper Guide Position]

1. Open the Front door, and remove two M4 Screws.
2. Lift up the Paper Guide and move to the outside.
3. Insert the upper and lower of the Paper Guide to a Guide hole for“A4”. At that time, the Paper Guide is outside of the Size Guide Sensor.
4. Fix the M4 Screw in a Screw hole for “A4”.


Paper Guide
Size Guide Sensor
Front Door
M4 Screw
A Screw hole for “A4” (Outside)
A Screw hole for “LT” (Inside)
A Screw hole for “A4” (Outside)
Size Guide Sensor
Upper Guide hole for “A4”(Outside)
Upper Guide hole for “LT”(Inside)
Upper Guide hole for “A4”(Outside)
Paper Guide
M4 Screw
Lower Guide hole for “A4”(Outside)
Lower Guide hole for “LT”(Inside)
Lower Guide hole for “A4”(Outside)

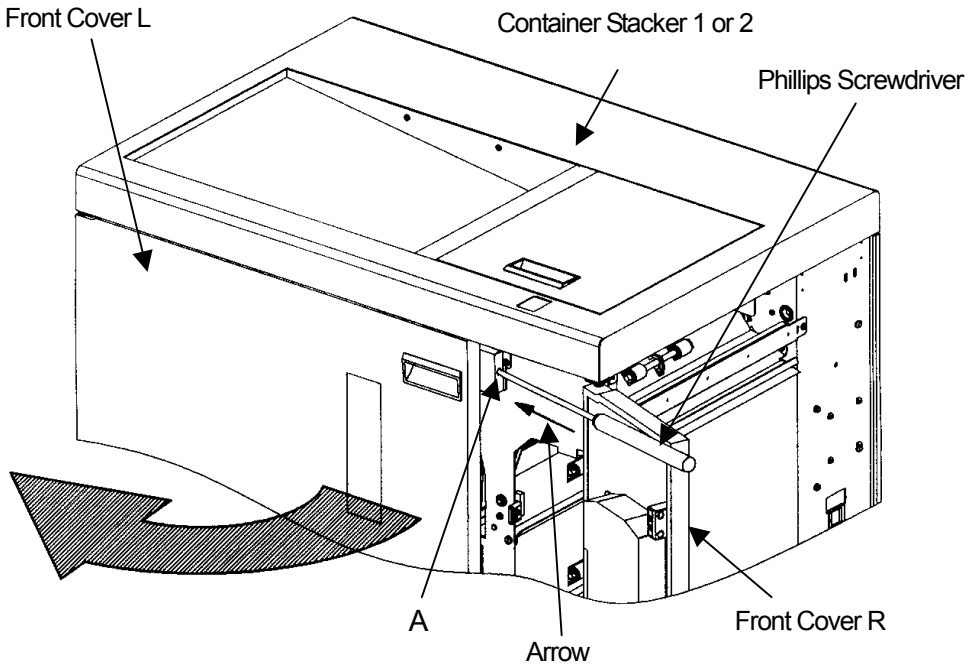
3.4 Preparation for installation of the Container Stacker 1 or 2

1) Peel off the Protection Tapes and cushion from the Container Stacker 1 or 2.
2) Open the Front Cover L and peel off the Protection Tapes.
3) Peel off the mat under the Basket.



< Opening procedure of the Front Cover L >

1) Open the front cover R.
2) Push A section in the direction of the arrow with Philips screwdriver and open the front cover L.



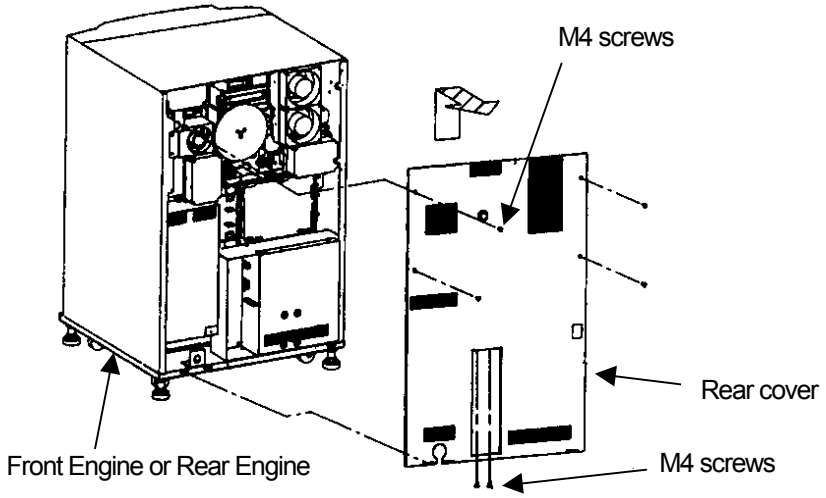
Chapter 4. Installation

4.1 Installation in the composition of the Printer and Finisher

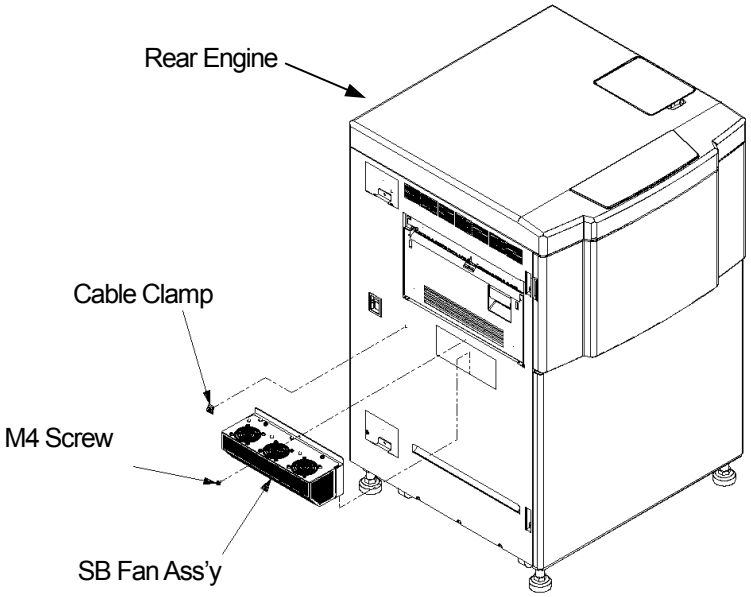
CAUTION

Don't install the Printer in any place where it will be subjected to direct sunlight since it may cause adverse effects on performance of the Printer.

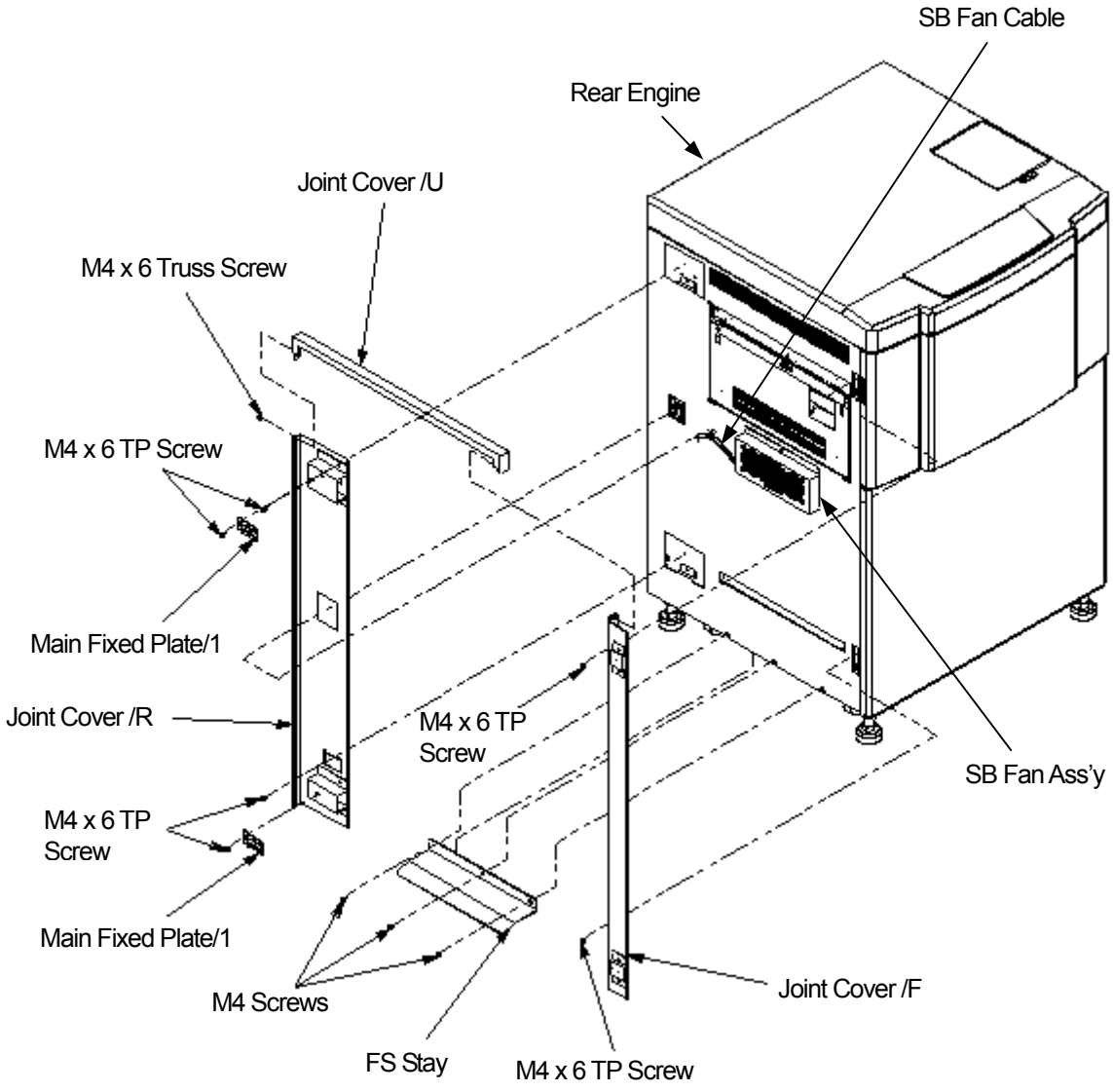
1) Releasing the Rear Cover (Front Engine and Rear Engine)
   (1) Unscrew the six M4 Screws.
   (2) Unhook the bottom of the Rear Cover and release the Rear Cover.
   (Release the Rear Cover by lifting up and pulling forward.)



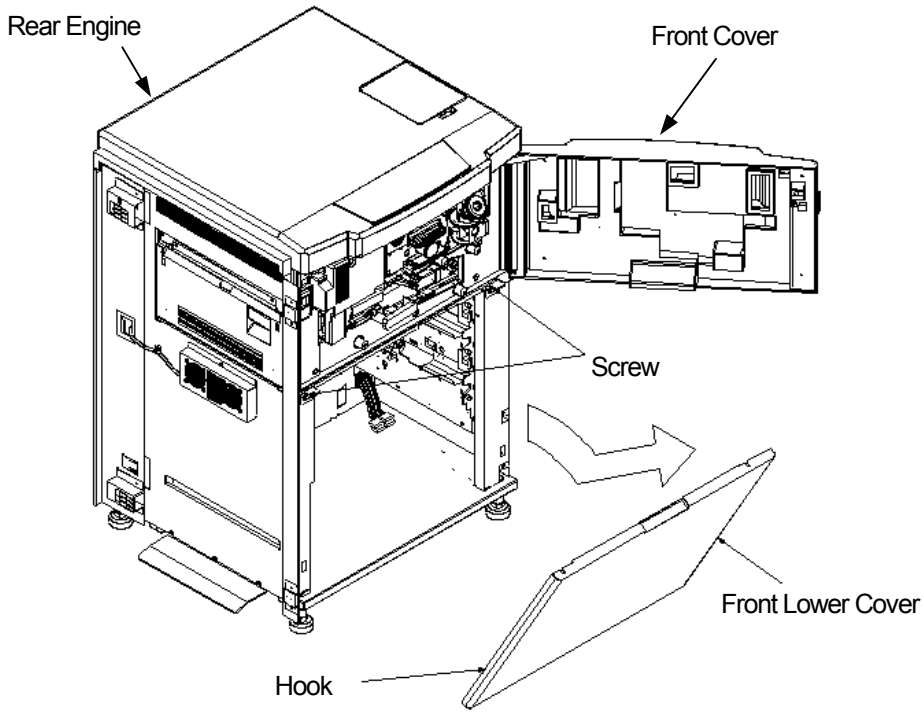
2) Install the SB Fan Ass'y to the Rear Engine by using a M4 Screw, and install the Cable Clamp.



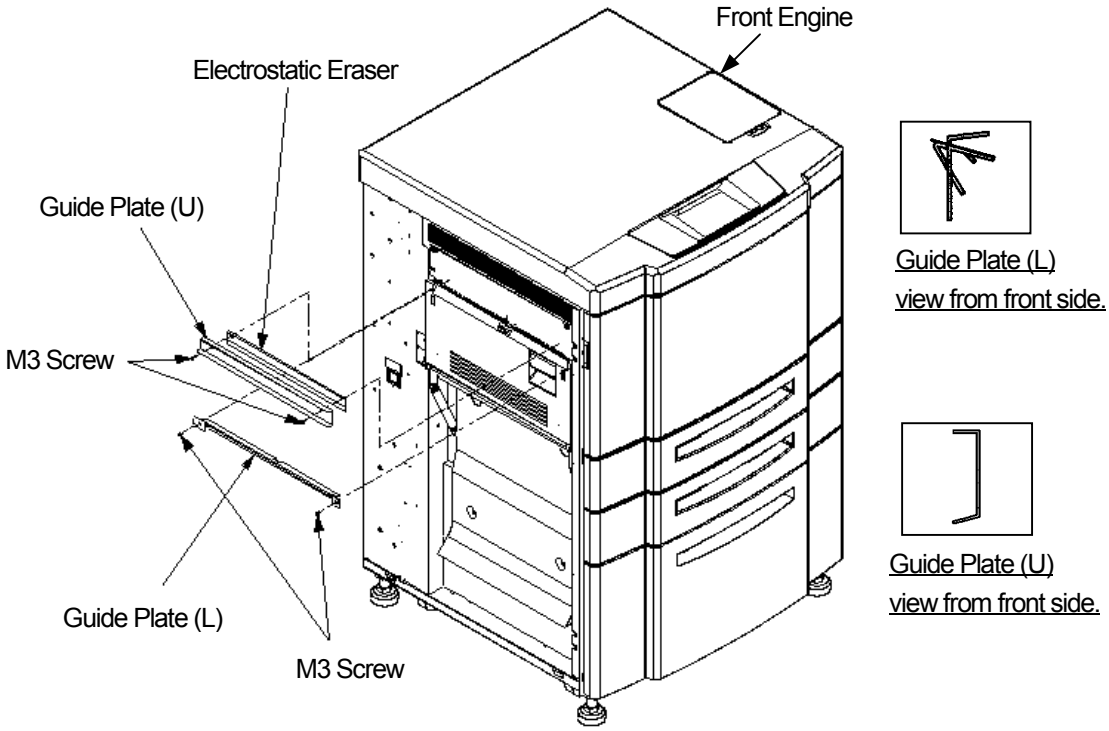
3) Install the Joint Cover /F, Joint Cover /U and Joint Cover /R to the Rear Engine.
4) Install the two Main Fixed Plate/1 to the Joint Cover /R. Connect the SB FAN Cable coming from SB FAN Ass'y to the Connector in the Rear Engine .
5) Install the FS Stay.



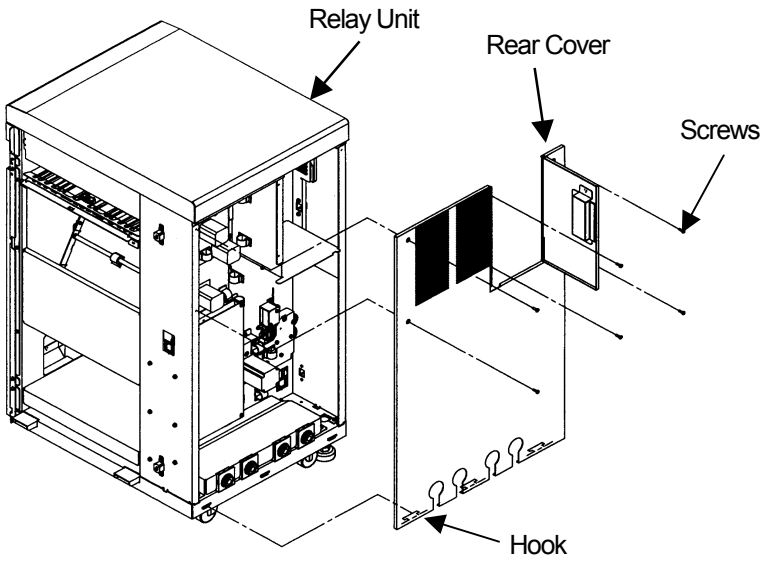
6) Releasing the Front Lower Cover. (Rear Engine)
   (1) Open the Front Cover
   (2) Loosen two M4 Screws.
   (3) Unhook the bottom of the Front Lower Cover and release the Rear Cover.



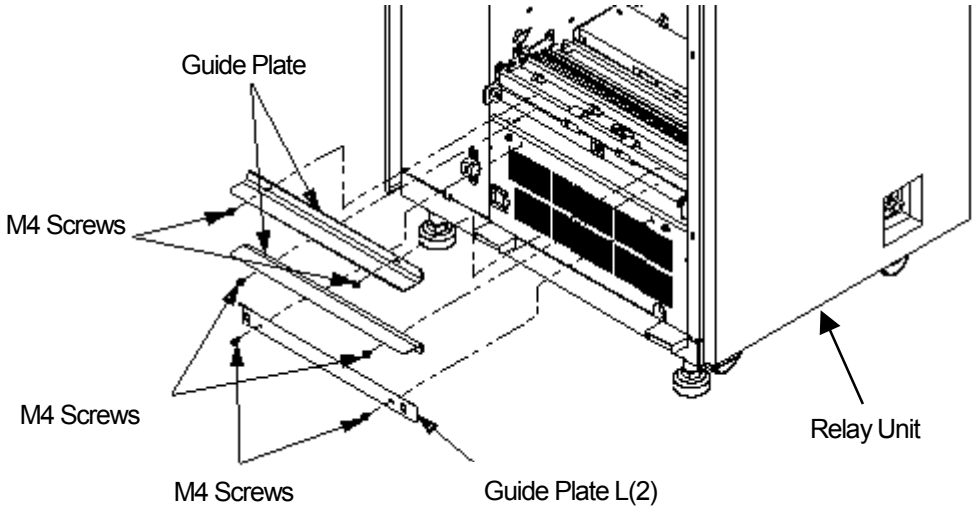
7) Install the Guide Plate (U) to the Front Engine with the Electrostatic Eraser ("FRONT" letter is surface.) by using the two M3 Screws. (Be careful that the hair of the Electrostatic Eraser does not fall.)
8) Install the Guide Plate (L) to the Front Engine by using the two M3 Screws.



9) Releasing the Rear Cover. (Relay Unit)
   (1) Unscrew the six M4 Screws.
   (2) Unhook the bottom of the Rear Cover and release the Rear Cover.
   (Release the Rear Cover by lifting up and pulling forward.)



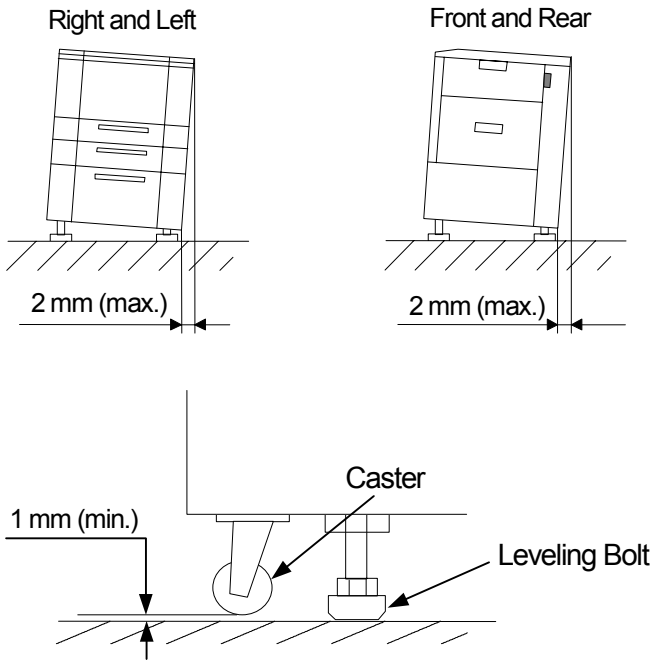
10) Install the two Guide Plate and Guide Plate L(2) to the Relay Unit by using each two M4 Screws.



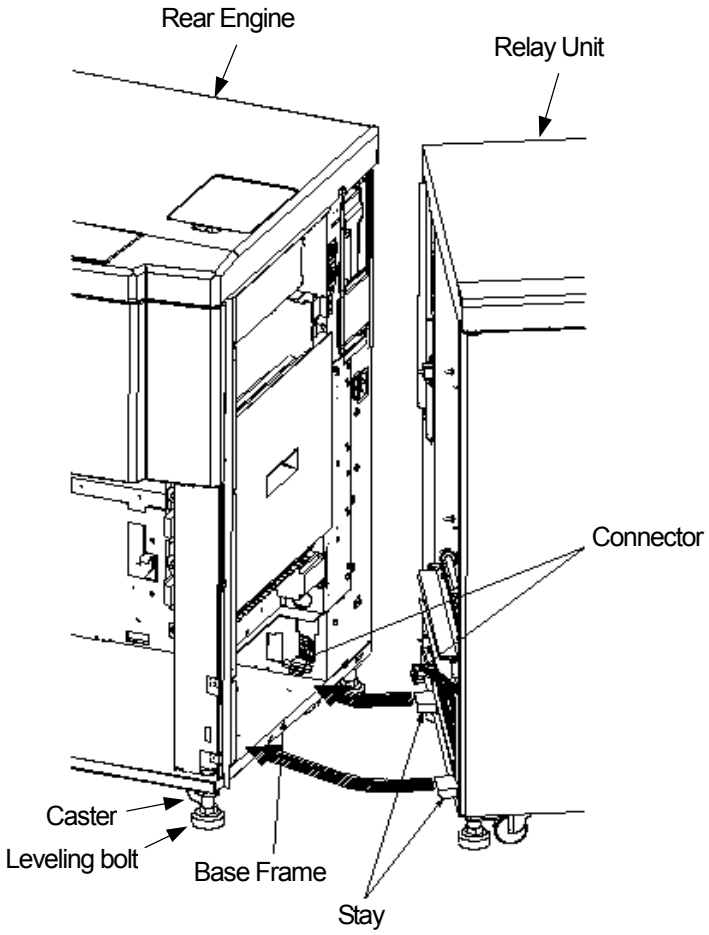
11) Fixing of the Printer
   (1) Twist the four leveling bolts of the Rear Engine until the leveling bolts touch the floor.
   (2) By half-rotate the nut of each leveling bolt of the Rear Engine, jack up the Rear Engine to set gap between the floor and Caster of the Rear Engine to about 1mm.
   (3) Adjust height and inclination of the Rear Engine using four leveling bolts according to the following figure.

CAUTION

When height and inclination are adjusted, set gap between the floor and Caster to 1 mm or more.



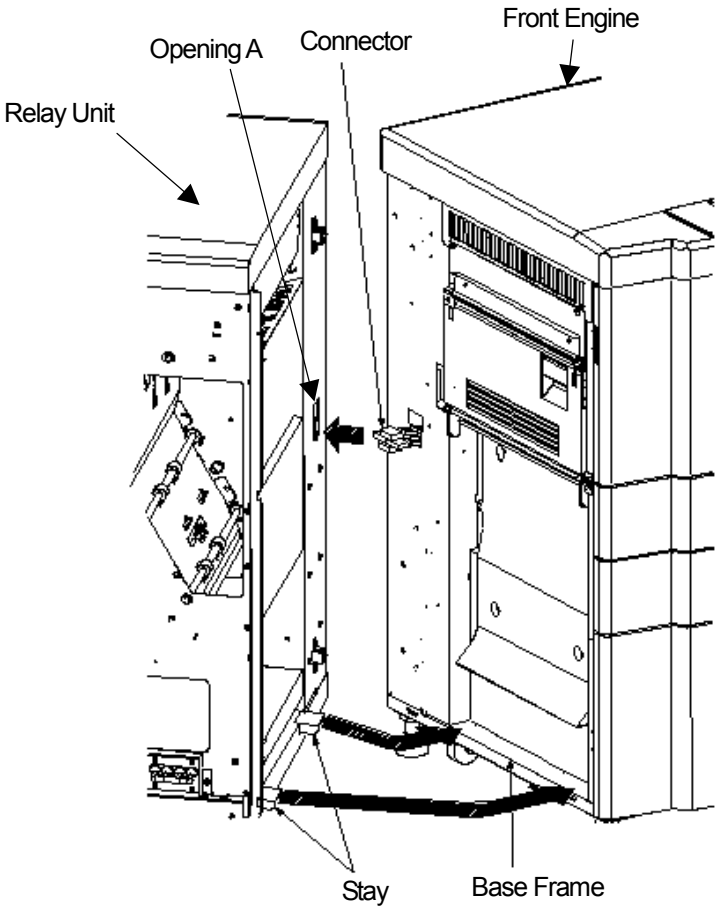
(4) Put the Stays of the Relay Unit on the Rear Engine. (Stay lay on the Base frame of Rear Engine)



CAUTION

When the Stay insert to the Base Frame, be careful not to put the cable and connector between the Rear Engine and Relay Unit.

(5) The connector of the Front Engine is inserted in opening A of the Relay Unit.
(6) Put the Stays of Relay Unit on the Front Engine. (Stay lay on the Base frame of Front Engine)

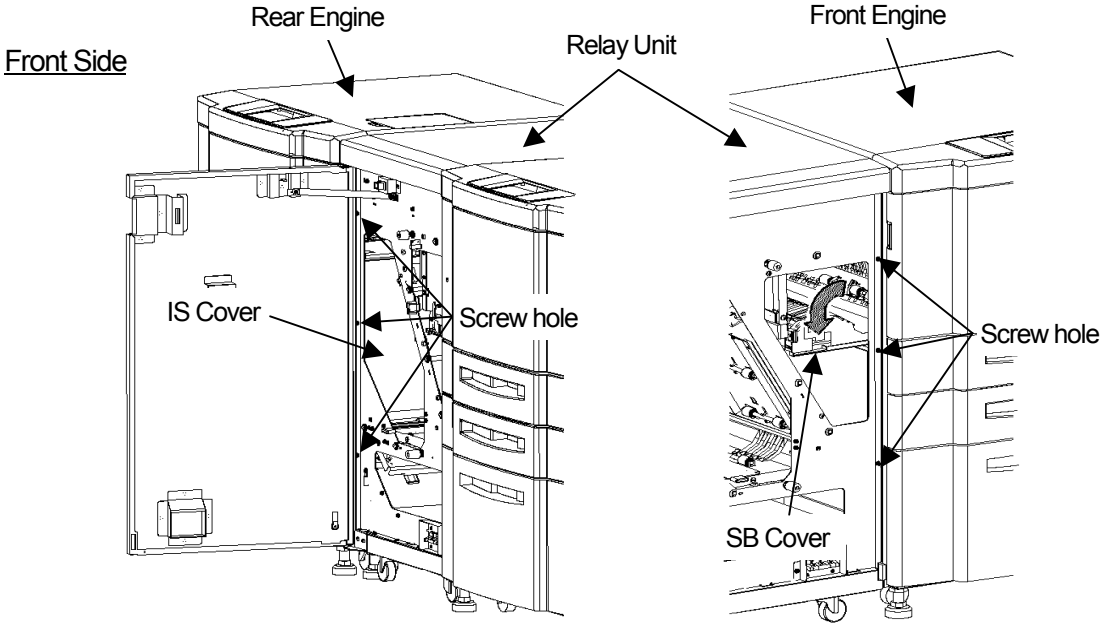


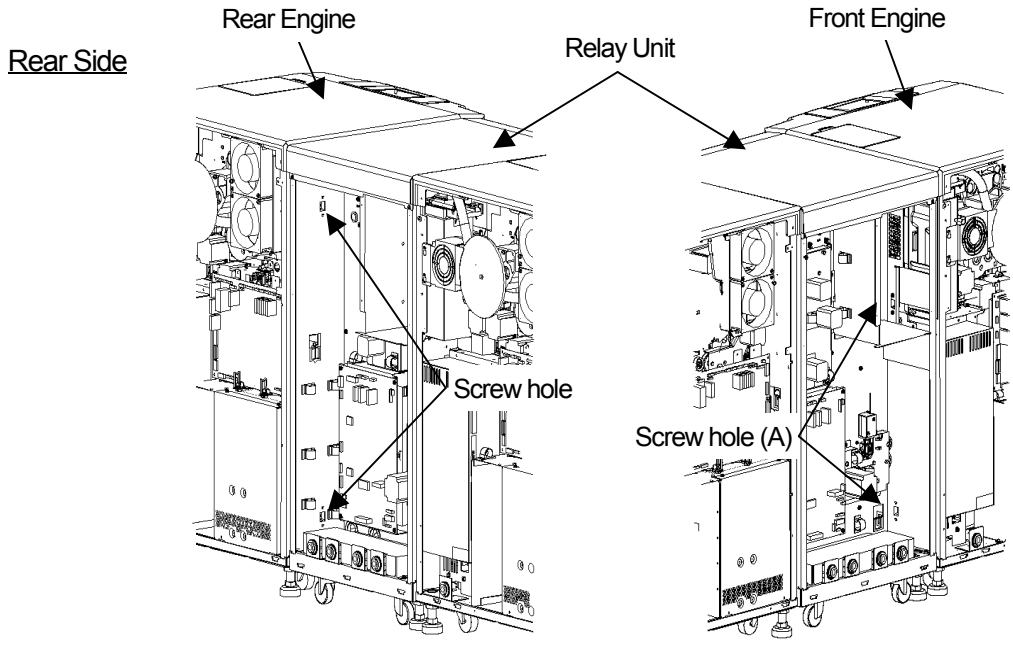
CAUTION

When the Stay insert to the Base Frame, be careful not to put the cable and connector between the Front Engine and Relay Unit.

(7) Twist the four leveling bolts of the Front Engine until the leveling bolts touch the floor.

(8) Adjust the leveling bolt of the Front Engine to align the center of screw holes of the Front Engine and Rear Engine with the center of oval holes of the Relay Unit and to be no gap between the Rear Engine and Relay Unit and between the Front Engine and Relay Unit.





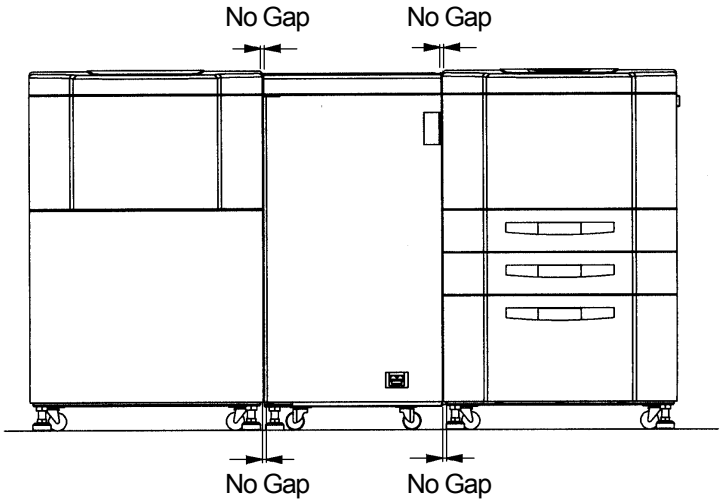
(9) Confirm to be able to open the SB cover and IS Cover.

(10) Fix the Relay Unit, Front Engine and Rear Engine with M4 screws. Screw hole(A) should be used M4 x 8 Tap screws.

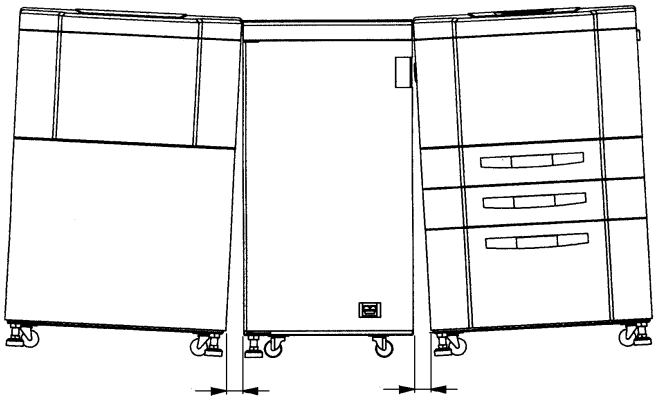
CAUTION

Make sure that it's no gap between each units before fixing.

Correct

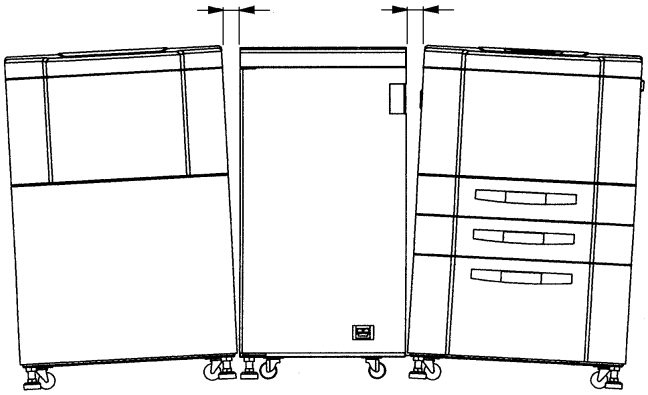


Incorrect



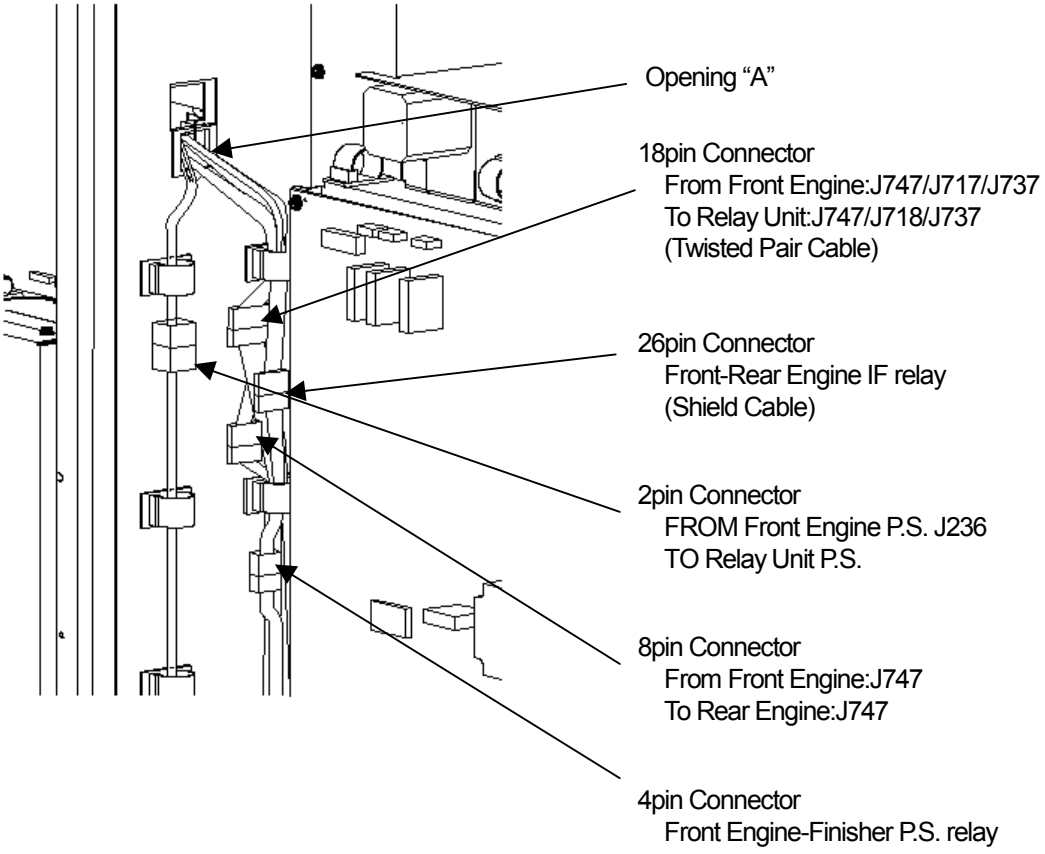
There is gap between each Units.

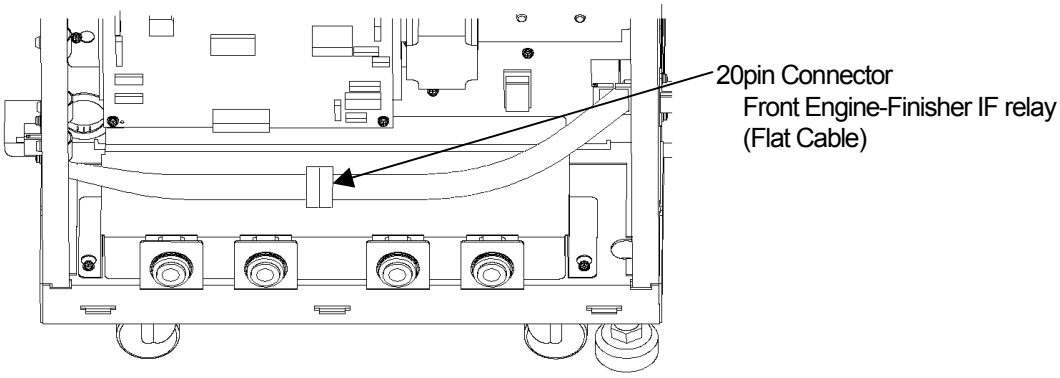
Incorrect



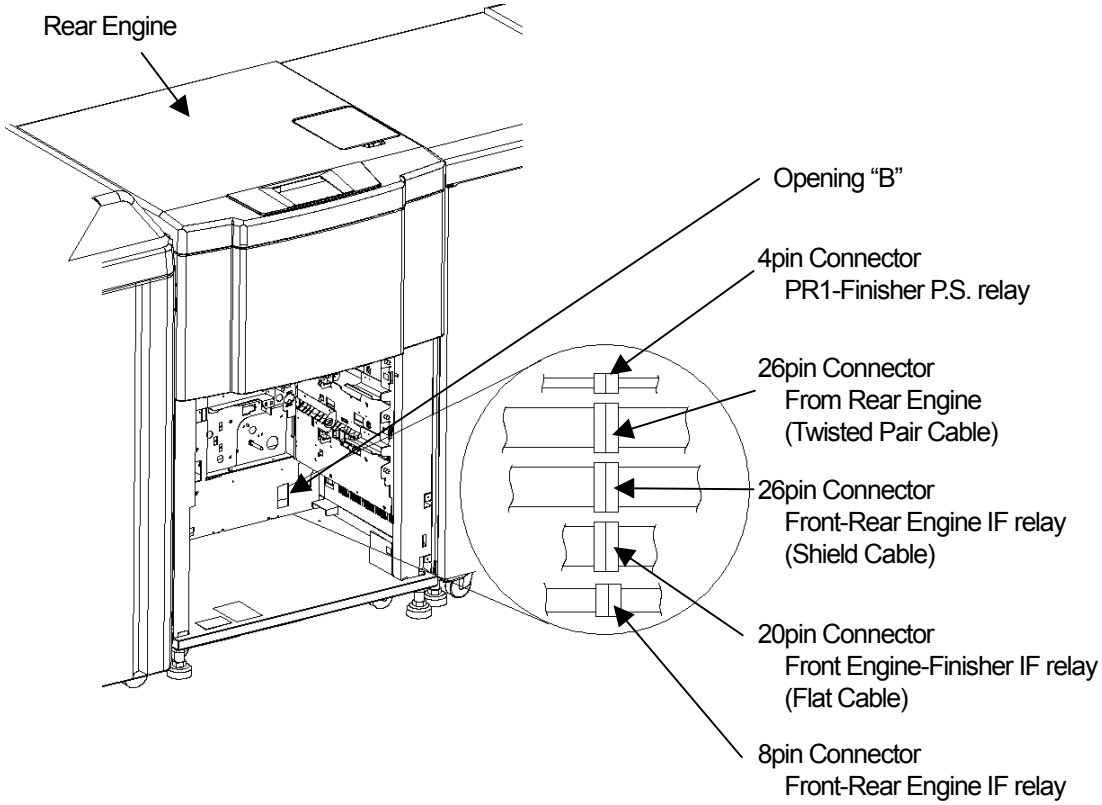
12) Connection of the Cables.

(1) Connect six cables coming from the Front Engine. At this time, put the cable through the opening “A” of the Front Engine for connection.





(2) Connect five cables coming from Relay Unit. At this time, put the cable through the opening “B” of the Rear Engine for connection.



(3) Connect the AC cable to Terminal Block of Front Engine Power Supply, and connect the AC cable to Terminal Block of Rear Engine Power Supply.

i) Put the Power Supply Cable and put it through the Cord Lock and pull it out of the Terminal Block .

ii) Unscrew the + screws to remove terminal block cover of power supply.

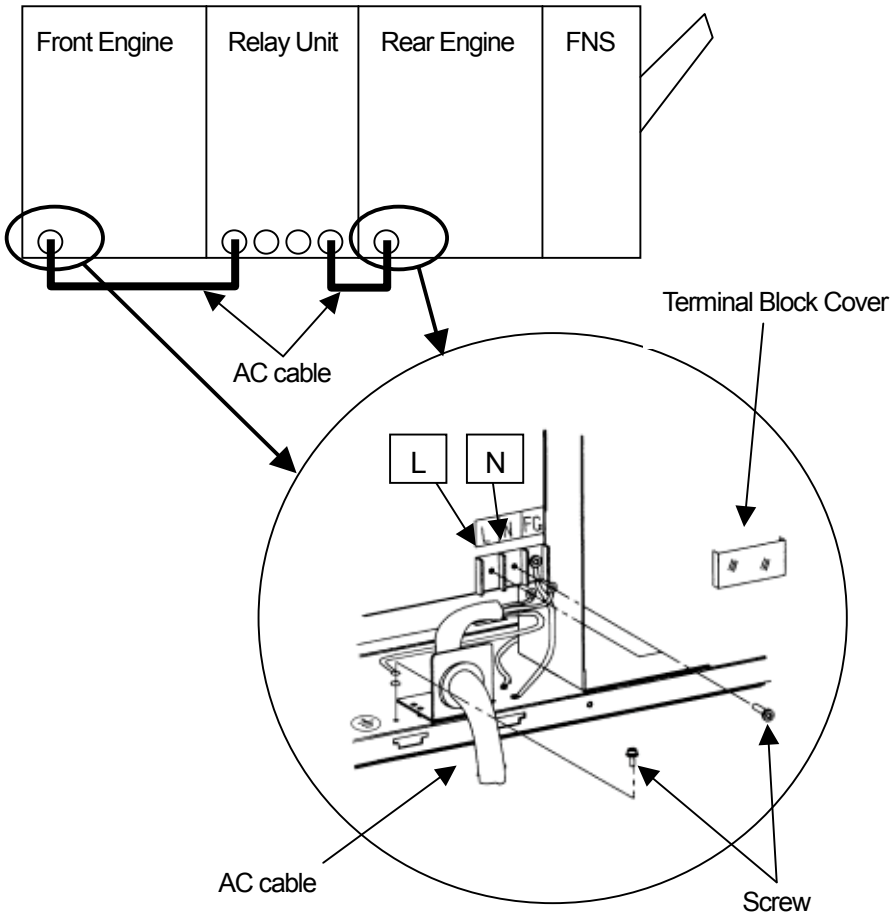
iii) Connect the AC cable to the Terminal Block and chassis.

Screw the L terminal of AC cable to L terminal of Power Supply.
Screw the N terminal of AC cable to N terminal of Power Supply.
Screw the FG terminal of AC cable to frame ground of Printer.

iv) Fasten the Power Supply Cable by the Cord Lock.

⚠ WARNING

1) **The voltage is constantly in unless the machine is unplugged or Breaker Switch is turned off.**
2) **Unplug the Power Supply Cable prior to connecting the power supply source.**
3) **Be careful not to have other personnel plug in the power cable while performing the connecting.**

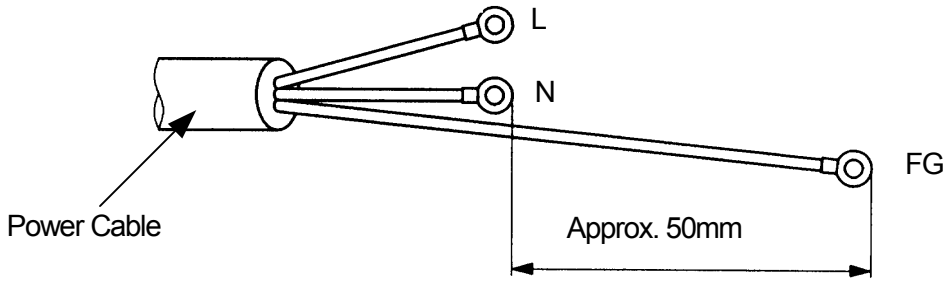


⚠ WARNING

1) **Unplug the Power Supply Cable prior to connecting.**
2) **Be careful not to have other personnel plug in the power cable while performing the connecting.**
3) **Be sure to use power supply cable which complies with the following specification :**

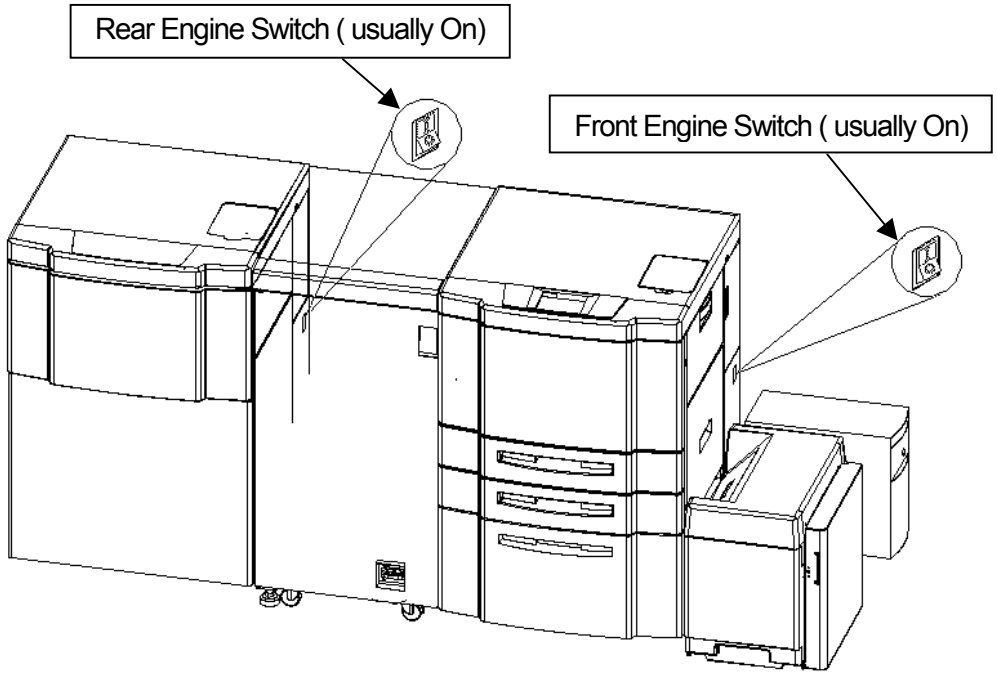
   Power plug rating ; Min. AC 250V, Min. 15A (2-Pole, 3-Wire, Grounded)
   6-15P UL Listed, CSA Certified in North America
   Type CA, Conformed to IEC 950 in Europe
   Power cable rating ; Min. AC 250V, Min. 15A
   Type SJT or SVT, UL Listed, CSA Certified in North America
   Conformed to IEC 950 in Europe

4) **Use the Power Supply Cable which is approximately 50 mm longer for the FG. The cable should be designed as below, so the FG power cable remains connected if the other cables are accidentally disconnected.**



5) **Make sure that the power cables are connected to the correct terminals ("L", "N") on the power plug and Terminal Block. (FG power cable is connected to chassis.)**
6) **The socket-outlet shall be installed near the printer and be easily accessible.**

(4) Check the switches of Front Engine and Rear Engine are ON.

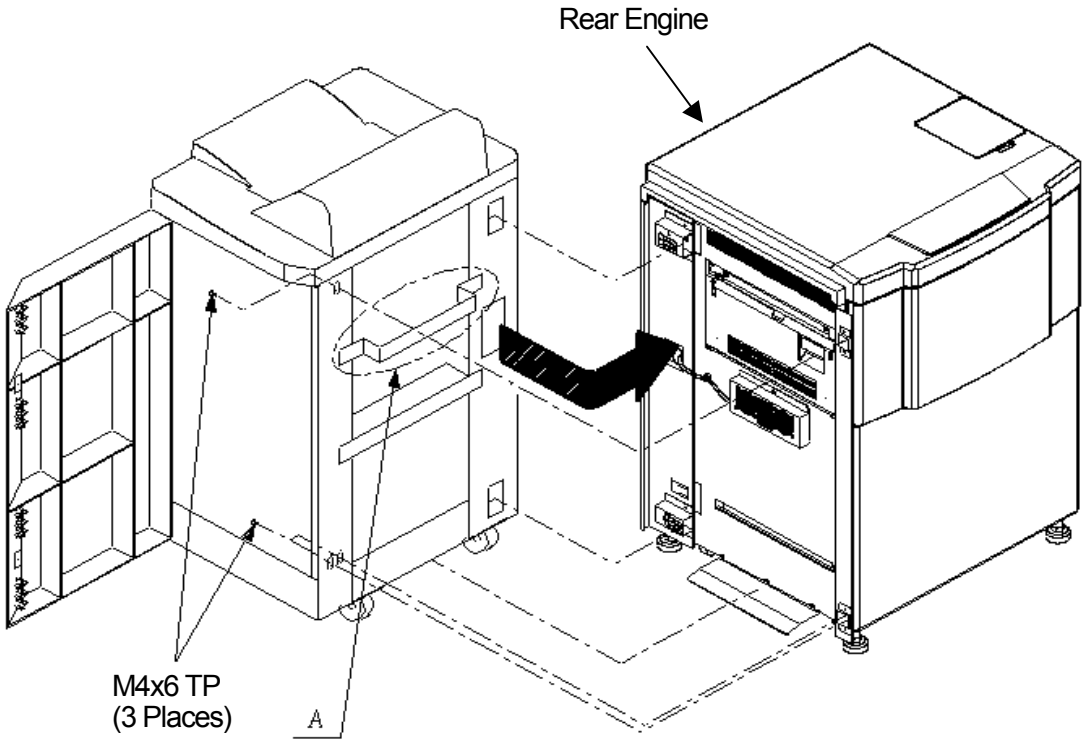


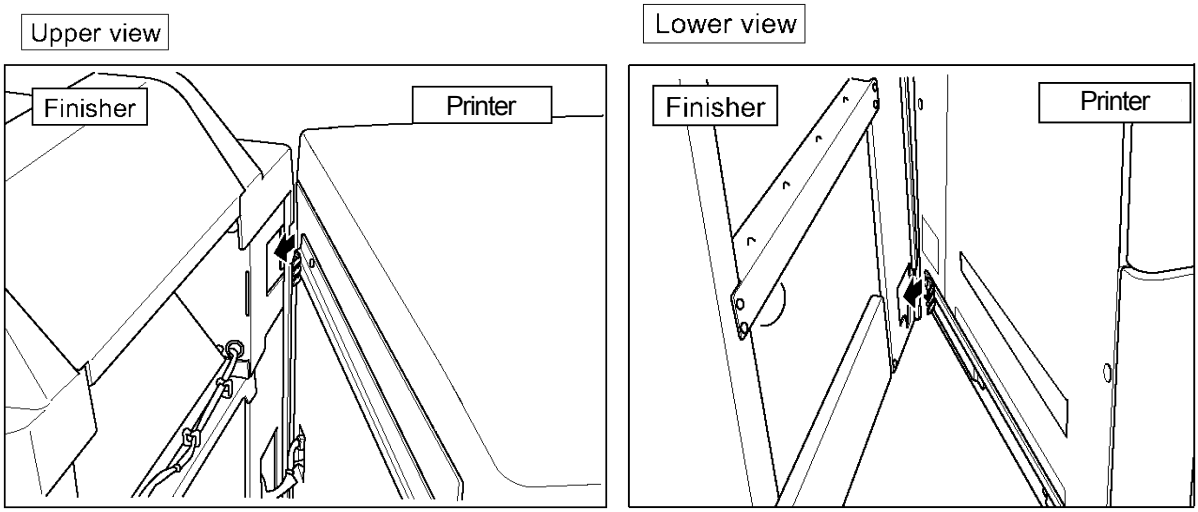
13) Install the Finisher to the Printer.

(1) Fit the hooks on the main body installation plates (upper and lower) into the upper and lower holes on the Finisher as illustrated below, then lock them by pushing the Finisher to the back.

CAUTION

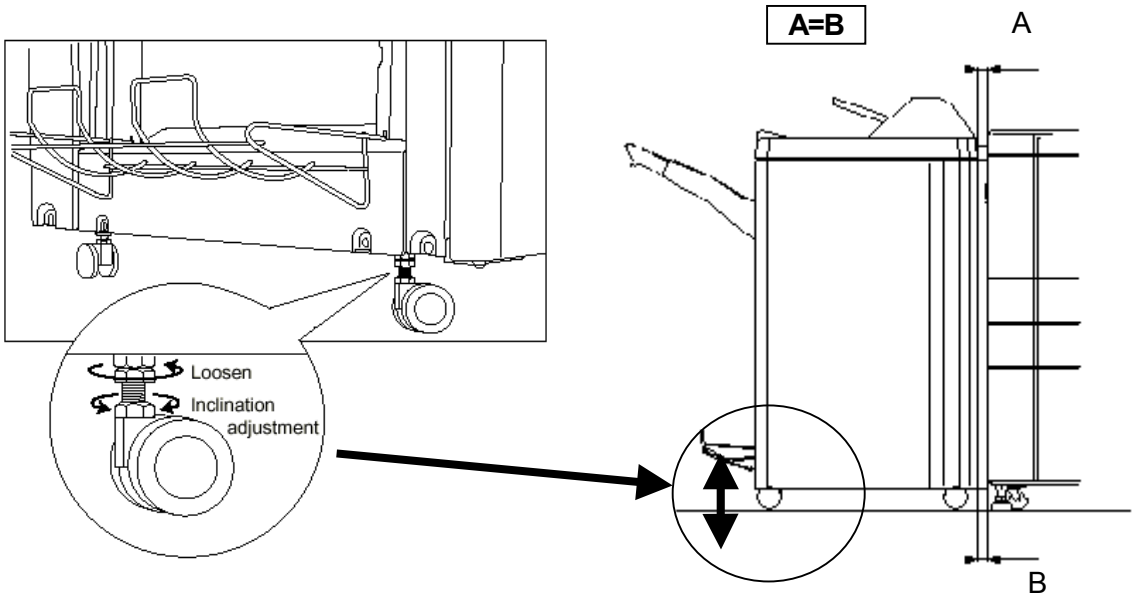
When installing the Finisher, don't hit following "A" part to the Printer.



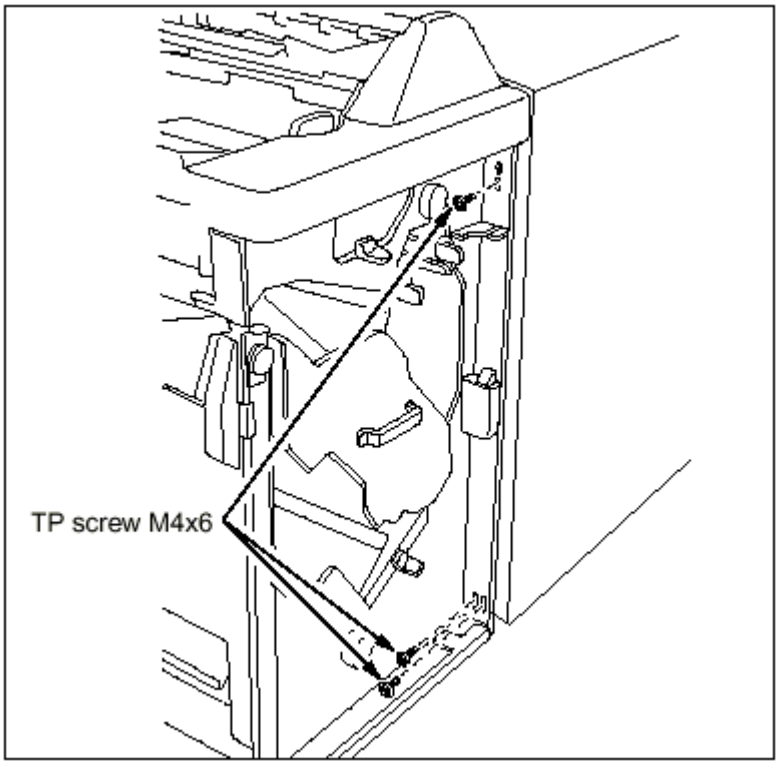


CAUTION

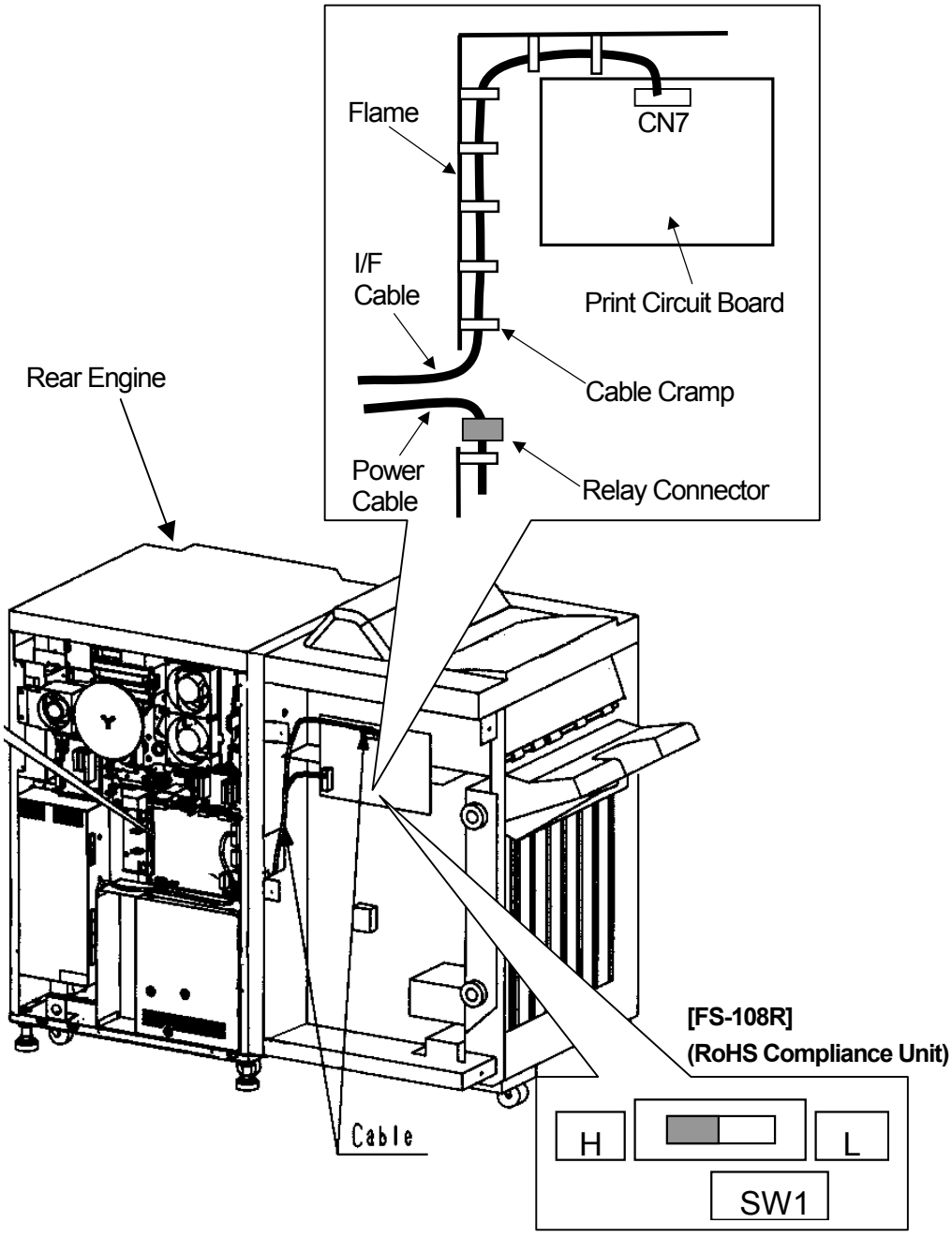
If the gap between the Finisher and Printer is not equal from the top through the bottom, adjust it by the height of the front and rear casters on the paper exit side of the Finisher.



(2) Fix the Finisher to the Printer (front side only). (TP screw M4x6: 3)

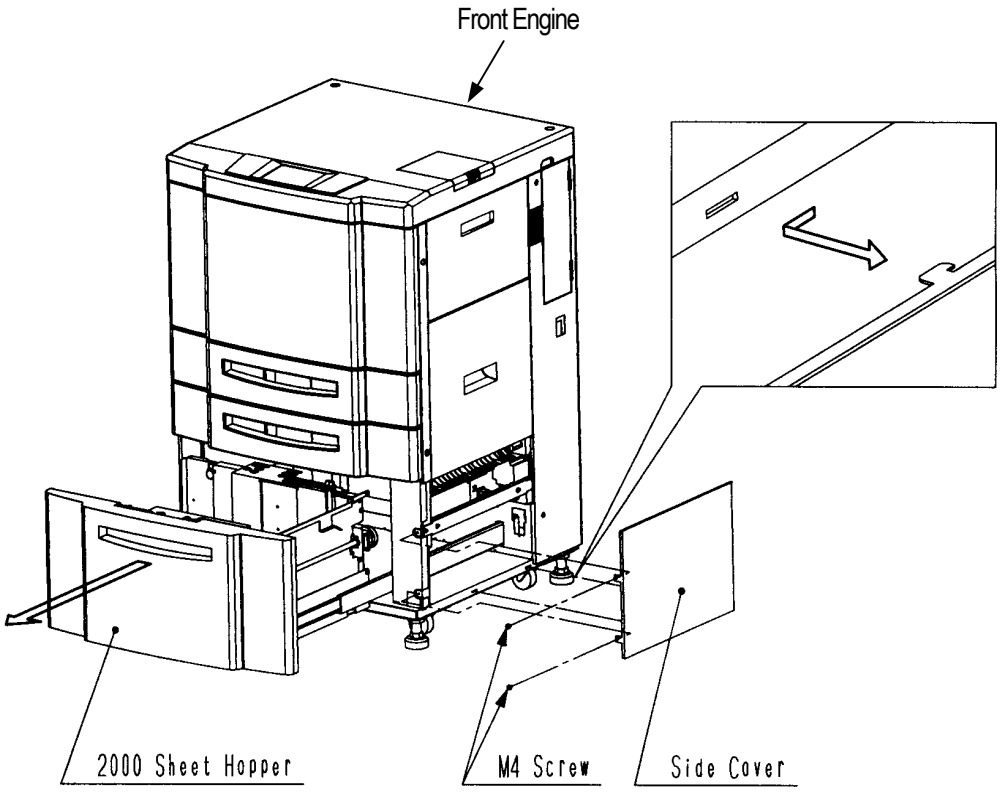


14) Connect the connectors of the Printer with the Finisher.
   (1) When connecting the connectors of printer with the Finisher, pass the two cables through the Hole of the Printer and Finisher.
   (2) Connect the I/F Cable to the CN7 connector on the Print Circuit Board through the cable clamps with other cables like following figure.
   (3) Connect the Power Cable to the Relay Connector like following figure.
   (4) Switch on No.8 of SW1 of on the Print Circuit Board of the Front Engine.
   (5) Turn on the "H" of the SW1 mounted on the P/K of the Finisher(FS-108R) **(RoHs Compliance Unit)**
   (6) Install the Rear Covers of the Printer and Finisher.

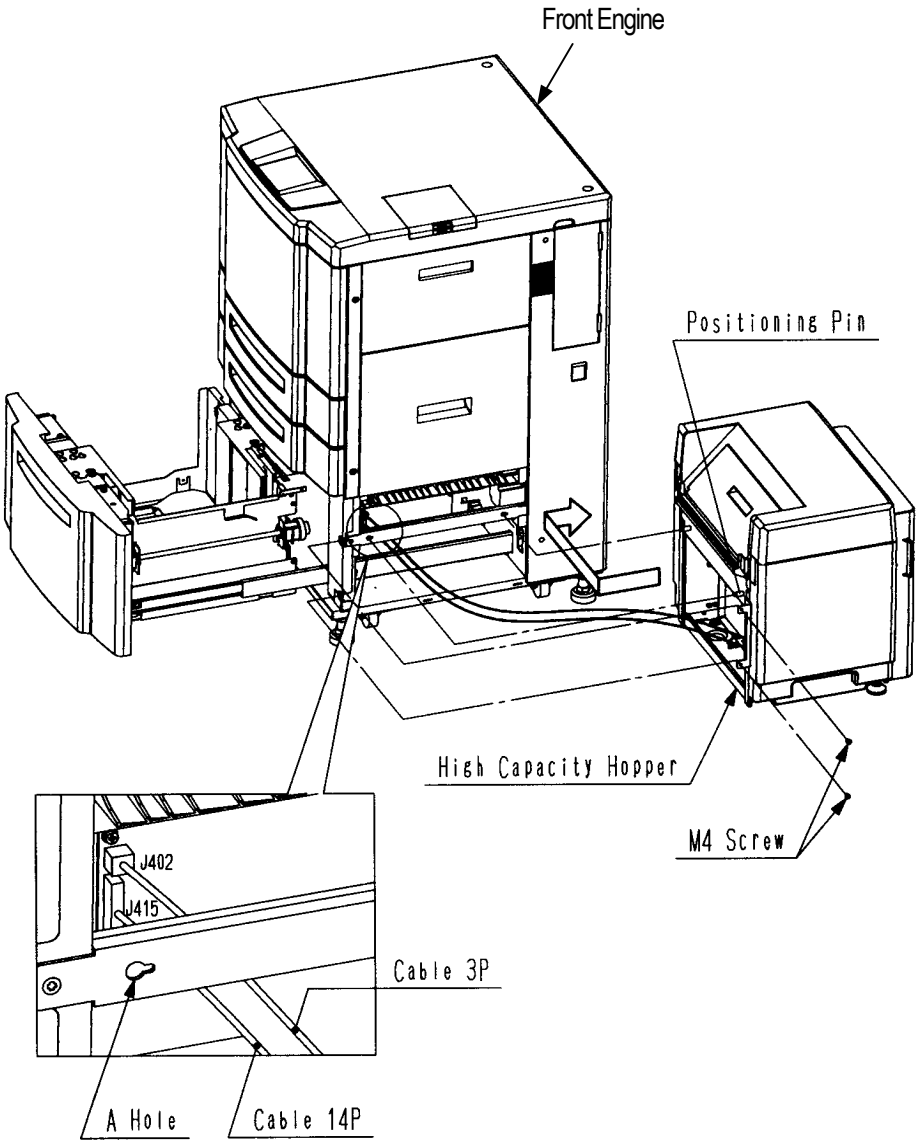


Installation in the composition with the High Capacity Hopper

1) Install components other than the High Capacity Hopper.
2) Draw the 2000 Sheet Hopper of the Front Engine.
3) Remove the two M4 screws and Side Cover.

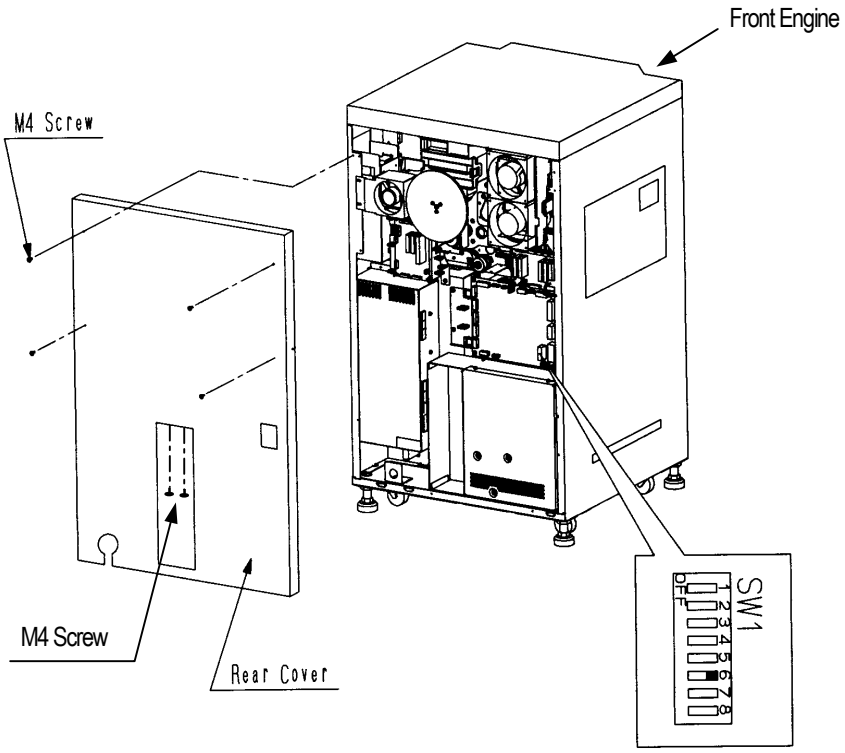


4) Connecting the two connectors(3pin and 14pin) to the HPxxx Ass'y of the Front Engine.
5) Connecting the High Capacity Hopper.
   (1) Put the Positioning Pin in the hole A and slide the High Capacity Hopper in the arrow direction.
   (2) Make sure that the Cable does not get caught between the Printer and High Capacity Hopper.
6) Tighten the two M4 screws.

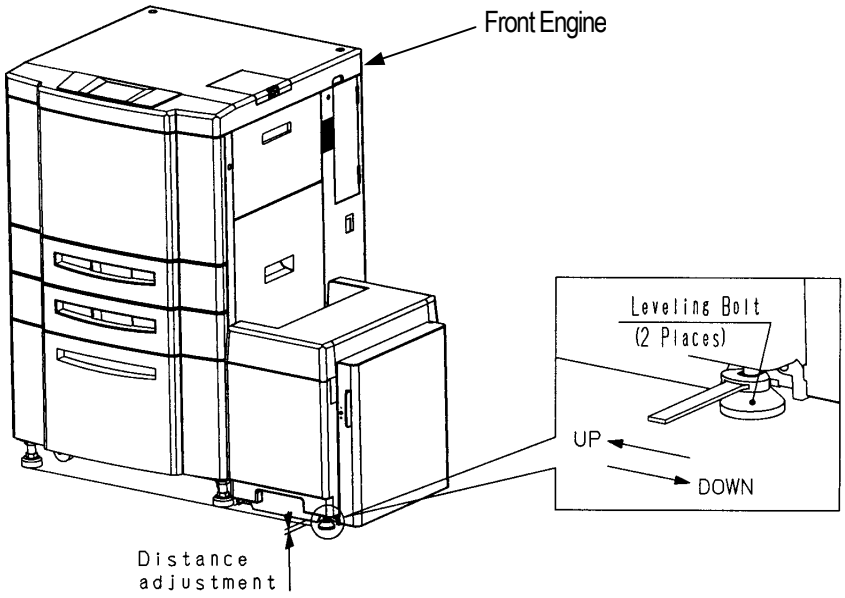


7) Return the 2000 Sheet Hopper.

8) Remove the six M4 screws and Rear Cover.
9) Switch on No.6 of SW1 on the CP P/K of the Front Engine.
10) Install the Rear Cover.



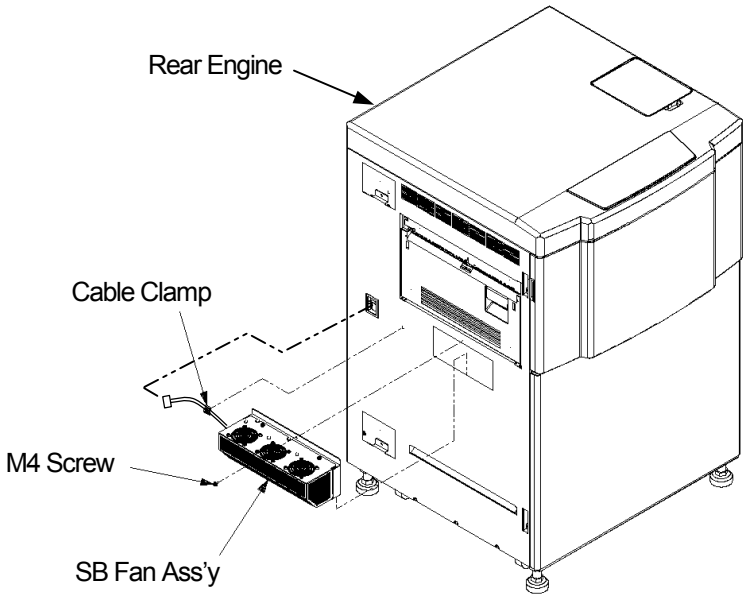
11) Turn the leveling bolt (2 Places) to make the bottom of the High Capacity Hopper parallel with the floor, judging by your eyes.



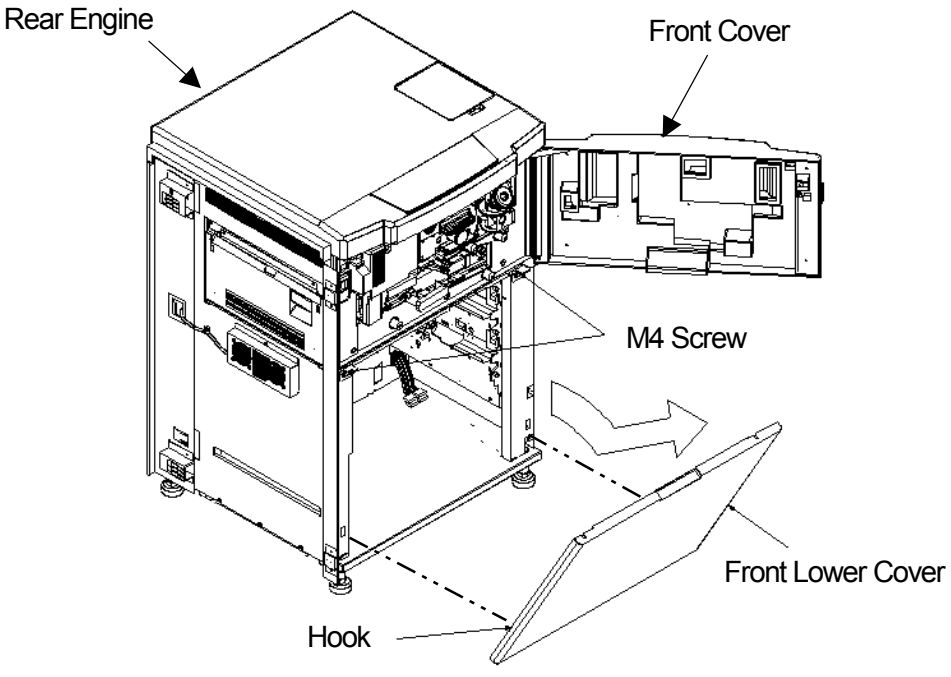
4.3 Installation in the composition with the Container Stacker 1 or 2

4.3.1 Connection of the Rear Engine and Container Stacker 1 or 2

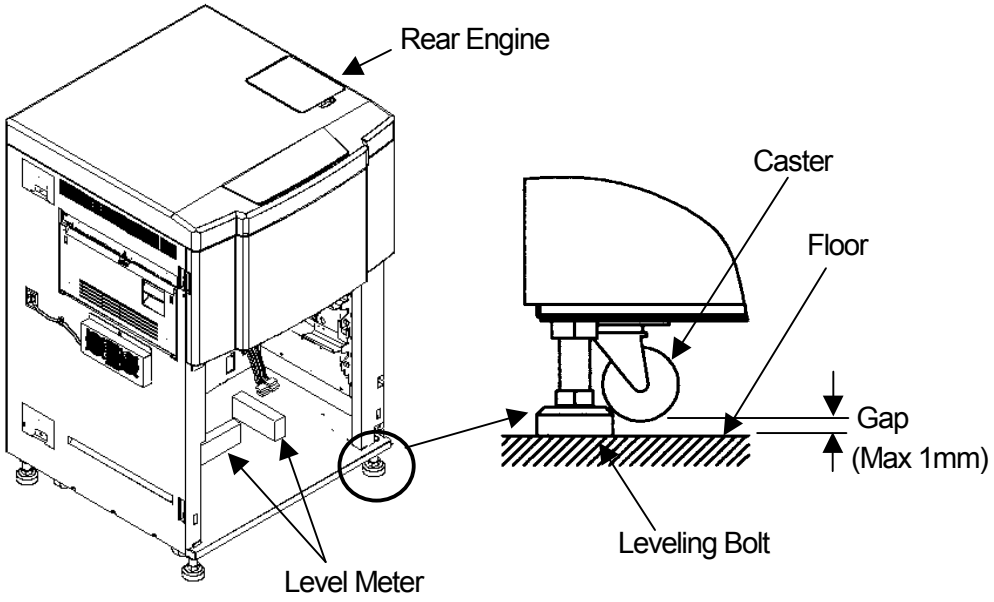
1) Install the SB Fan Ass'y to the Rear Engine by using a M4 Screw, and install the Cable Clamp. Connect the SB FAN cable coming from SB FAN Ass'y to Rear Engine.



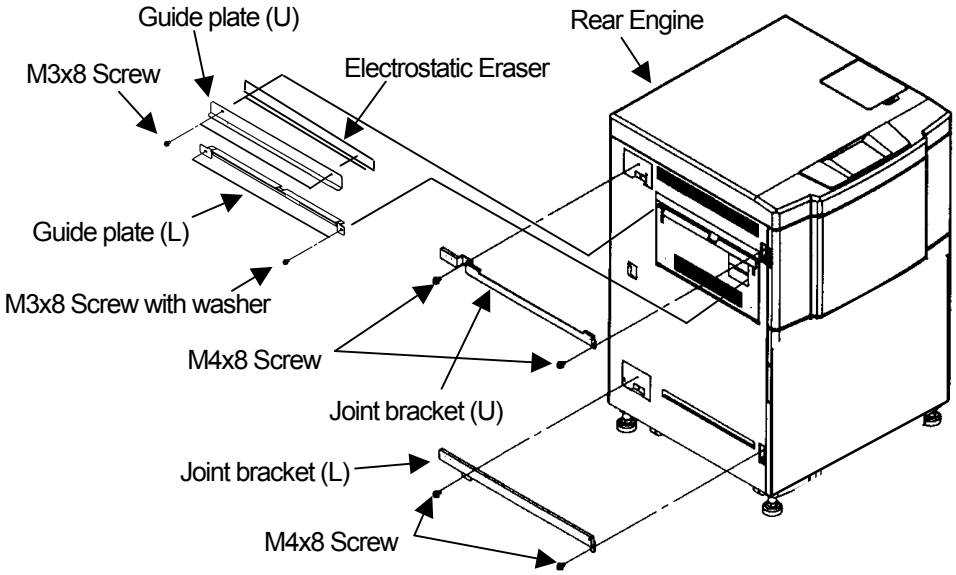
2) Open the Front cover of the Rear Engine and loosen the two M4 Screw.
3) Pull upper part of the Front Lower Cover forward and unhook the lower hook of it by lifting and pulling it forward.

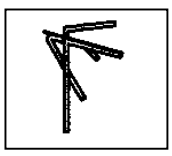


4) Turn the four leveling bolts until casters are floated. Adjust the horizontal level of the Rear Engine with the Level Meter putting on the frame.

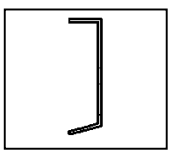


5) Remove the two M3x8 Screws and Electrostatic Eraser from the Rear Engine.
6) Install the Guide plate (U) with the Electrostatic Eraser ("FRONT" letter is surface.) by using the two M3x8 Screws. (Be careful that the hair of the Electrostatic Eraser does not fall.)
7) Install the Guide plate (L) by using the two M3x8 Screws with washer.
8) Install the Joint Bracket (U) and Joint Bracket (L) by using the two M4x8 Screws.



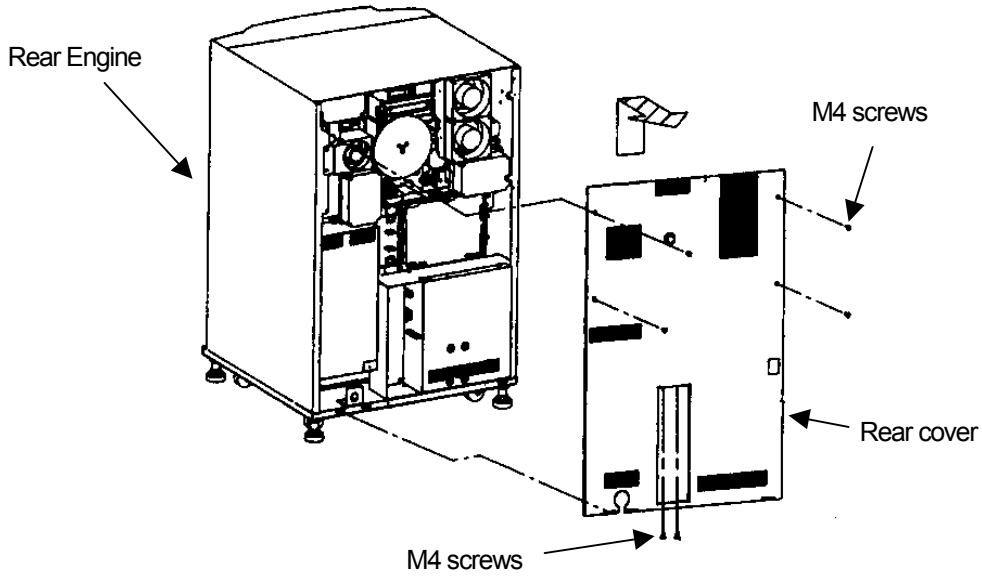


Guide Plate (L)
view from front side.

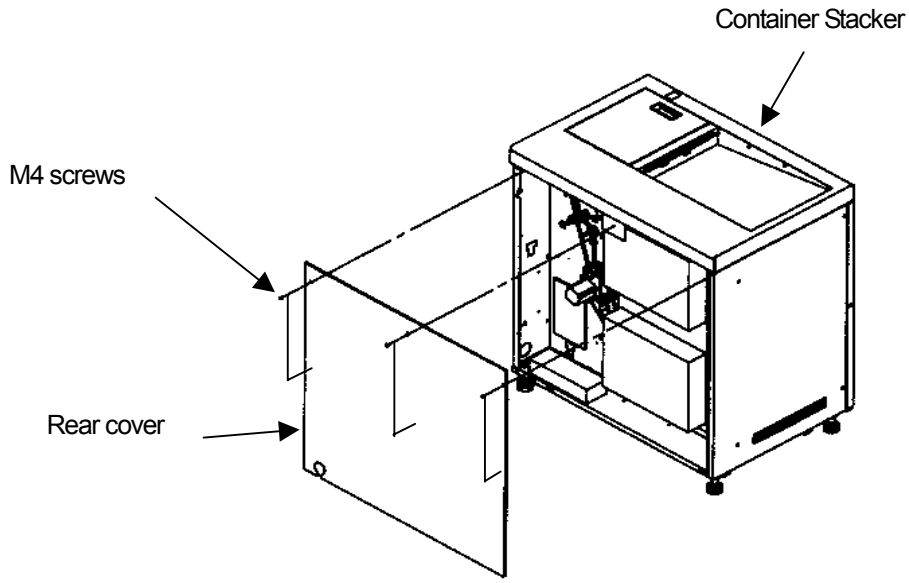


Guide Plate (U)
view from front side.

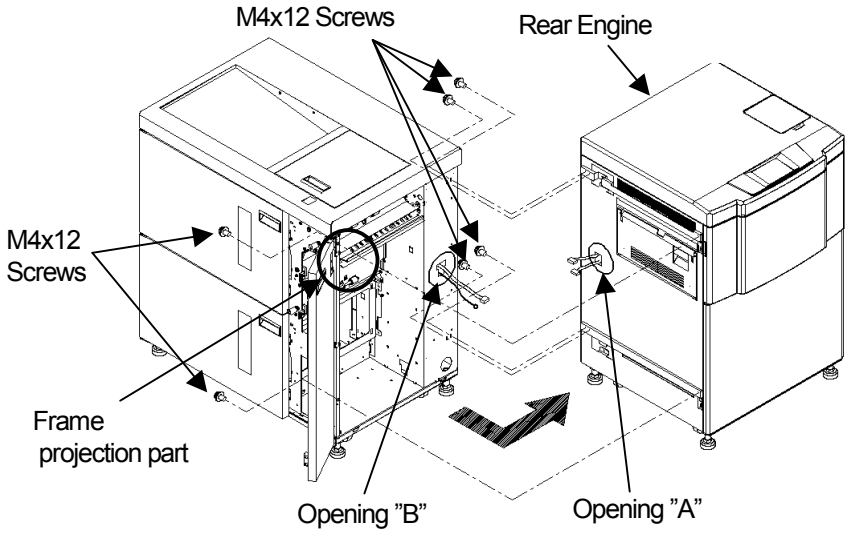
9) Releasing the Rear Cover of the Rear Engine.
   (1) Unscrew the six M4 Screws.
   (2) Unhook the lower hook of the Rear Cover and release the Rear Cover.
   (Release the Rear Cover by lifting up and pulling forward.)



10) Remove the six M4 screws and the Rear Cover of the Container Stacker

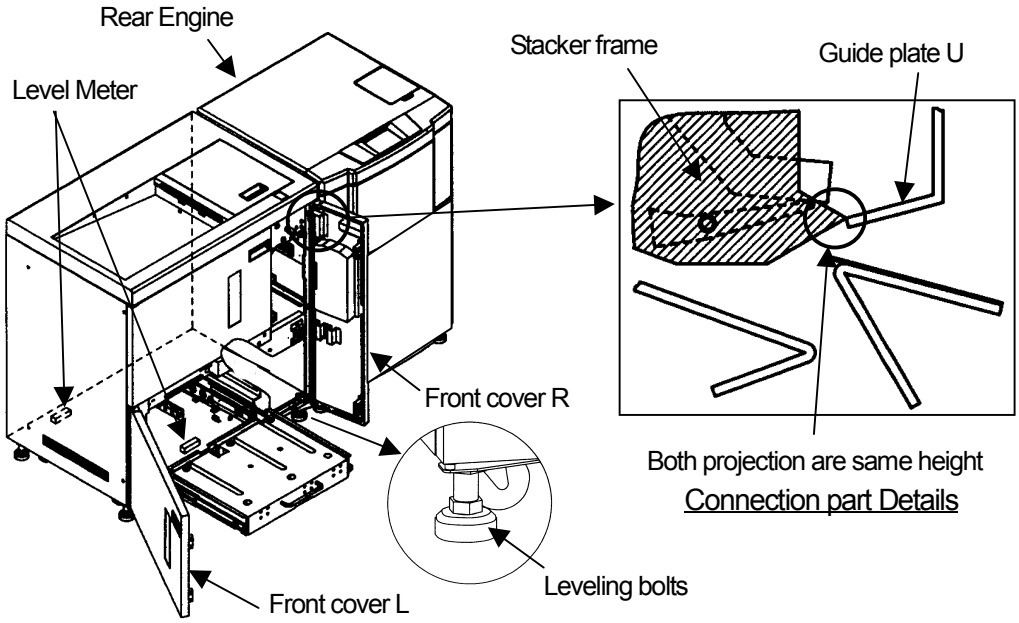


11) Attach the Container Stacker to the Rear Engine.
   (1) Pass the AC Relay cable (2-pin white connector) and FNS IF cable (20-pin black connector) through opening “A” in the Rear Engine, and then through opening “B” in the Container Stacker.
   (2) Pass the CST FG cable and CST AC cable (2-pin white connector) through opening “B” in the Container Stacker, and then through opening “A” in the rear engine.
   (3) Attach the Rear Engine to the Container Stacker (6 M4x12 screws).
   Important: Do not tighten the screws all the way.

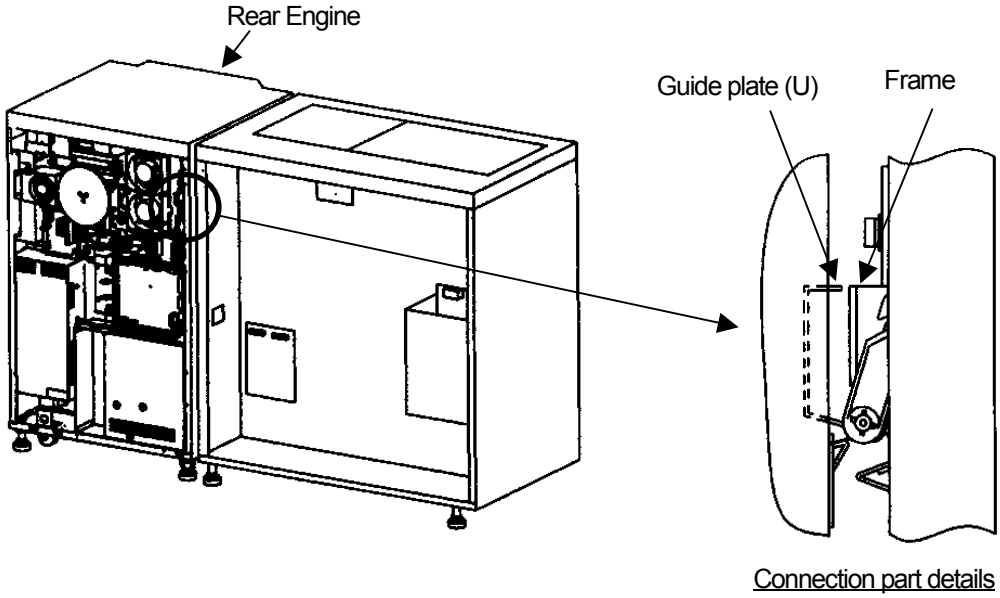


12) In order to adjust the height of Container stacker, turn 180 degrees each of four leveling bolts, and satisfy the following conditions, and bolt the screw of a temporary tight.
   (1) When the Front cover R is shut and it looks into the space between the Printer and Container stacker from front side, the height of the Frame’s projection of Container stacker and the Guide plate U’s projection is the same.

[Note] As for the way of opening front cover L, refer to the item 3.3.

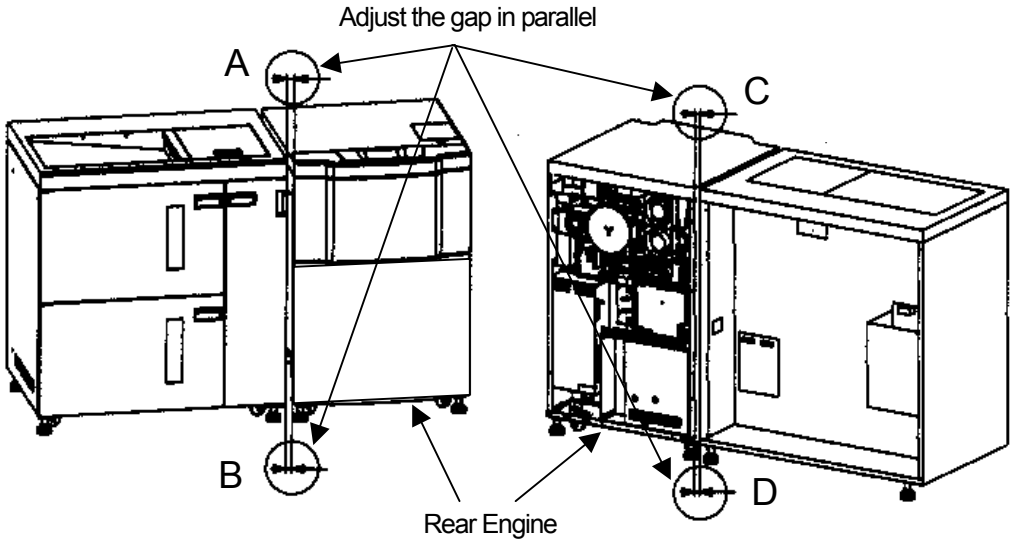


(2) It looks into the space between Printer and Container stacker from a rear side, the height of the Frame's upper part of Container stacker and the Guide plate U's upper part is the same.
(3) Put the Level Meter on two places of Container stacker is level.



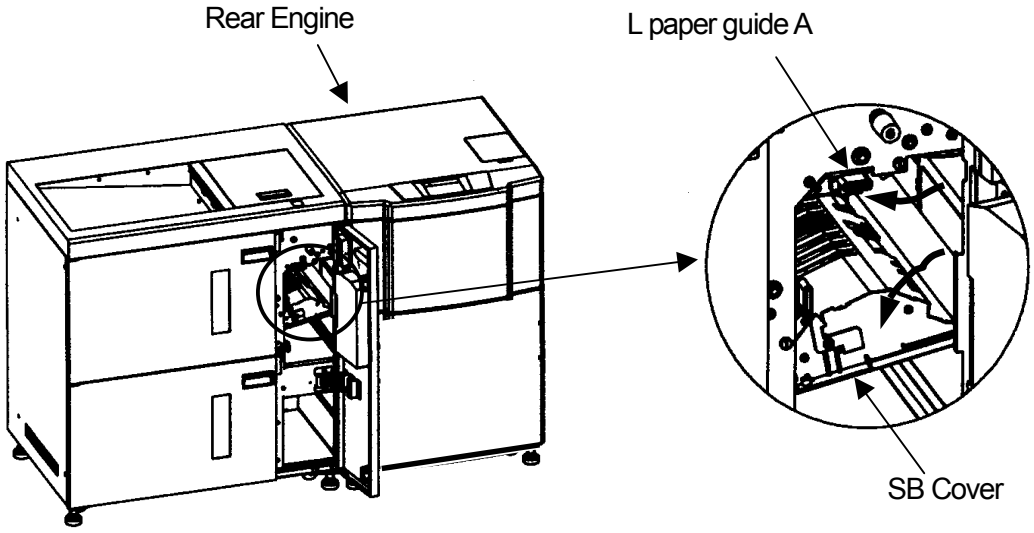
CHECK

Check the Gaps of A,B,C,D are nearly equal each other.



CHECK

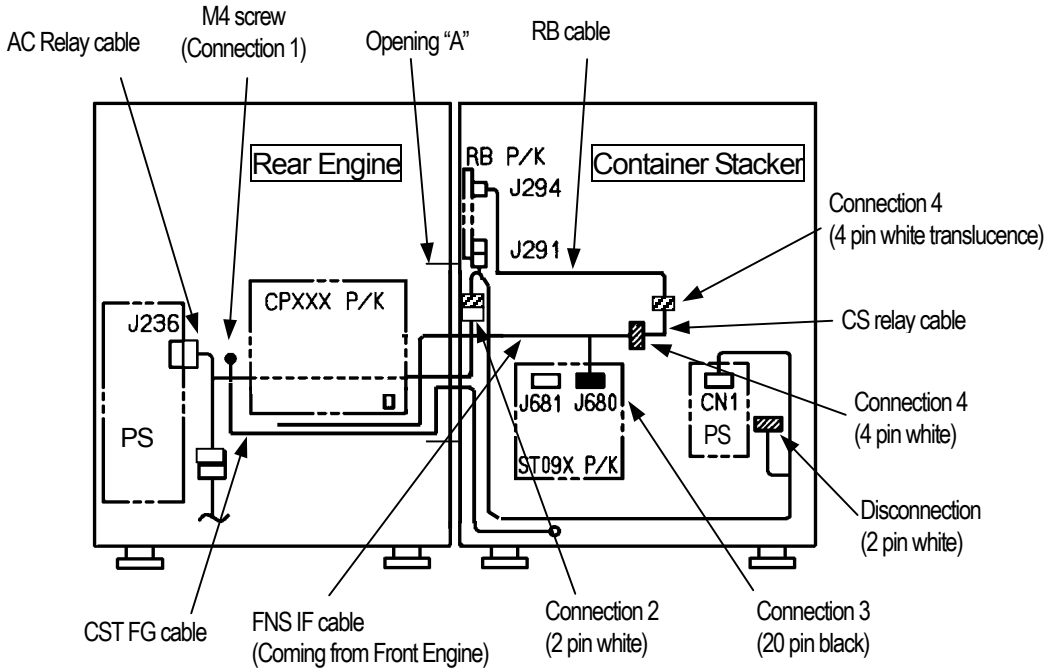
Open the L paper guide A of the Container Stacker make sure that the SB cover can be opened.
When not open, re- adjusts to implement the item 4.3.1.12) and to lift the Container Stacker.



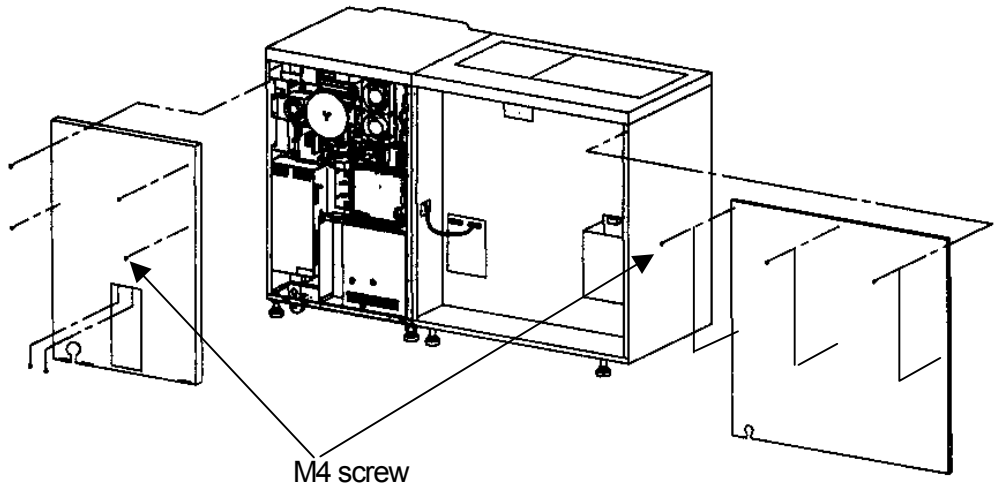
13) Mount the CST FG cable coming from the Container Stacker side on the Rear Engine frame by using M4 screw (Connection 1 on the below figure).
14) Connect the CST AC cable (2 pin white connector) coming from the Container Stacker to the AC Relay cable (2 pin white connector) coming from the Rear Engine (Connection 2 on the below figure).
15) Connect the FNS IF cable (20 pin black connector) coming from the Rear Engine to the J680 connector on the ST09X P/K board in the Container Stacker (Connection 3 on the below figure).
16) Connect the CS relay cable in the printer accessory box to the FNS IF cable (4 pin white connector) and the RB cable (4 pin white translucence connector) of the Container Stacker. (Connection 4 on the below figure)

[Note] Put the cable through the opening "A" of the Rear Engine for connection.

17) When the Container Stacker 1 or Finisher are furthermore connected, Perform item 4.3.2 or 4.3.3.
18) Perform to item 4.1.6) - 4.1.11) to install the Printer.
19) Turn on the No. 5 and turn off the No. 2 and 8 of the SW1 mounted on the CPXXX P/K of the Front Engine.

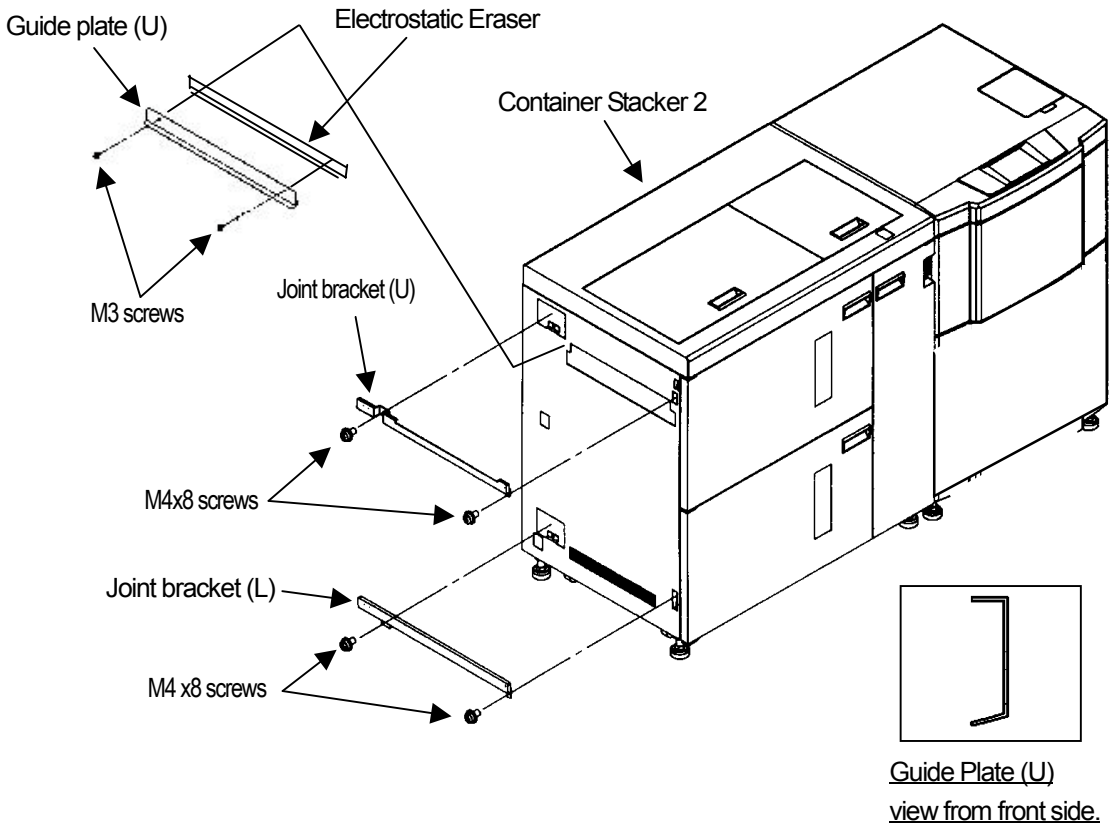


20) Install the Rear Cover of the Rear Engine and Container Stacker.

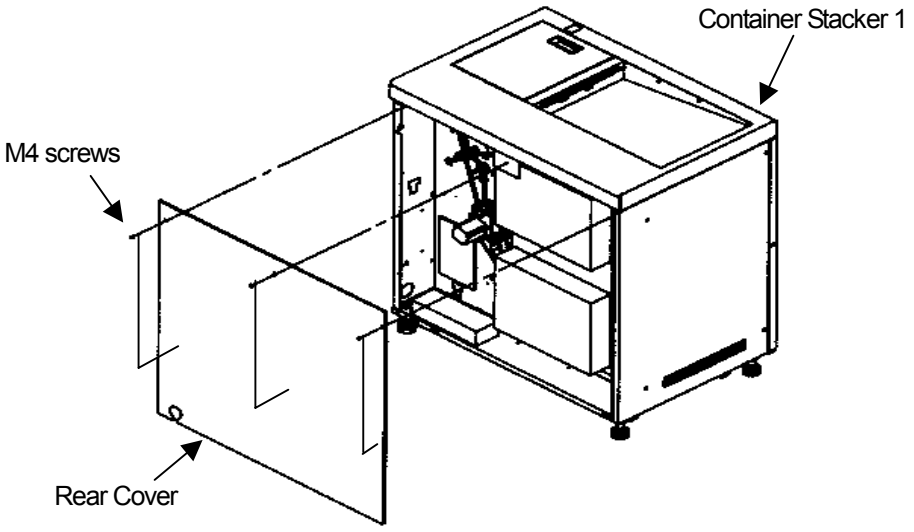


4.3.2 Connection of the Container Stacker 1 and Container Stacker 2

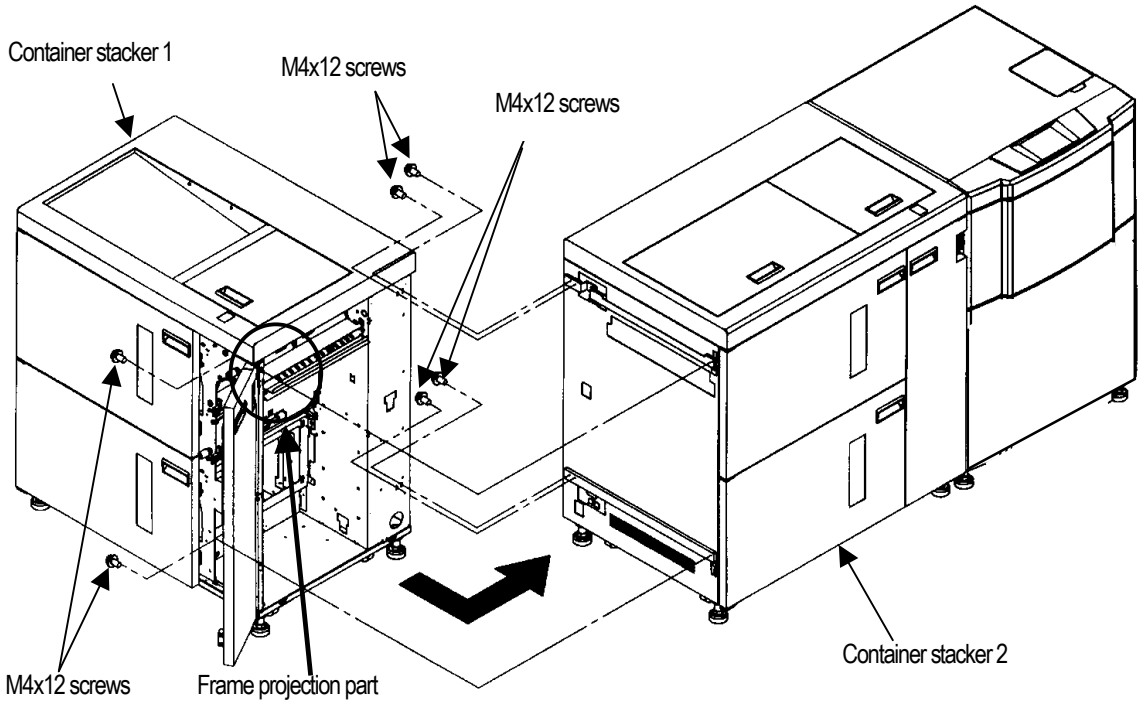
1) Perform item 4.3.1.
2) Remove the two M3x8 Screws and Electrostatic Eraser from the Container stacker 2.
3) Install the Guide plate (U) with the Electrostatic Eraser ("FRONT" letter is surface.) by using the two M3 Screws. (Be careful that the hair of the Electrostatic Eraser does not fall.)
4) Install the Joint Bracket (U) and Joint Bracket (L) by using the two M4x8 Screws.



5) Remove the six M4 screws and remove the rear cover from the Container Stacker 1.

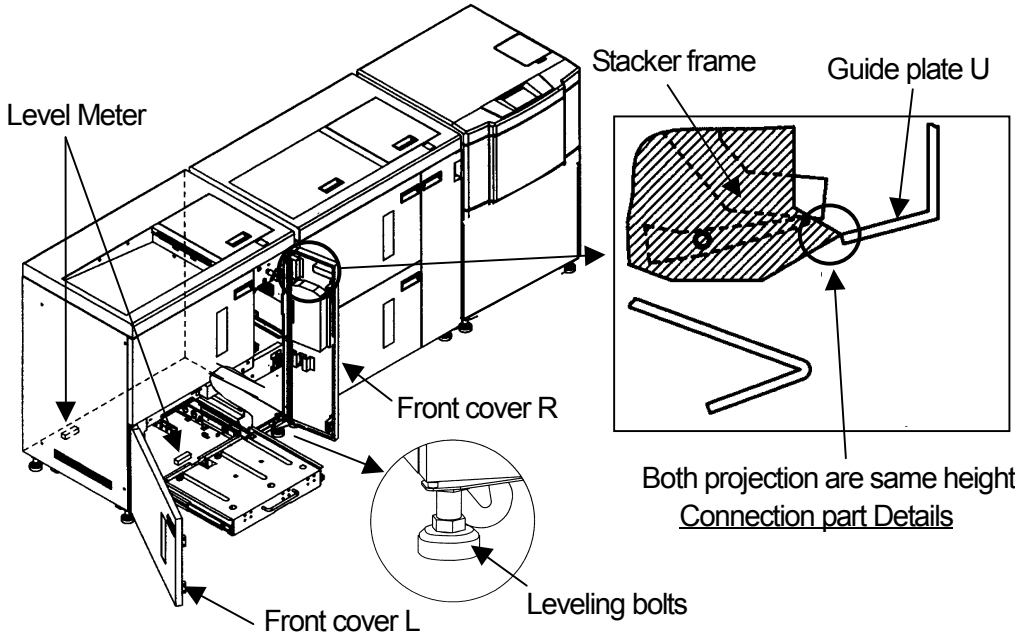


6) Install the Container Stacker 1 to the Container Stacker 2. The screw is the thing of the temporary stopping.

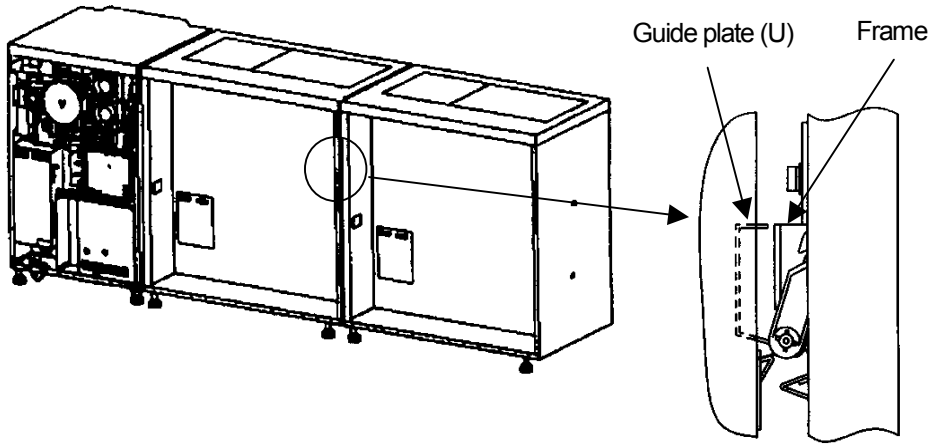


7) In order to adjust the height of Container stacker, turn 180 degrees each of four leveling bolts, and satisfy the following conditions, and bolt the screw of a temporary tight.
   (1) When Front cover R is shut and it looks into the space between Container stacker 2 and Container stacker 1 from a front side, the height of the Frame's projection of Container stacker and the Guide plate U's projection is the same.

[Note] As for the way of opening front cover L, refer to the item 3.3.



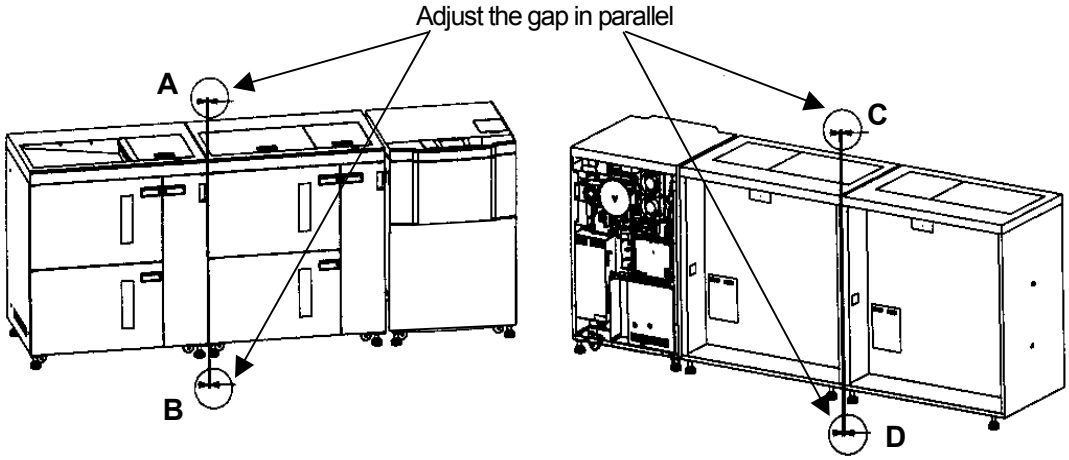
(2) It looks into the space between the Container stacker 2 and Container stacker 1 from a rear side, the height of the Frame's upper part of Container stacker 1 and the Guide plate U's upper part is the same.
(3) Put the Level Mater on two places of Container stacker is level.



Connection part details

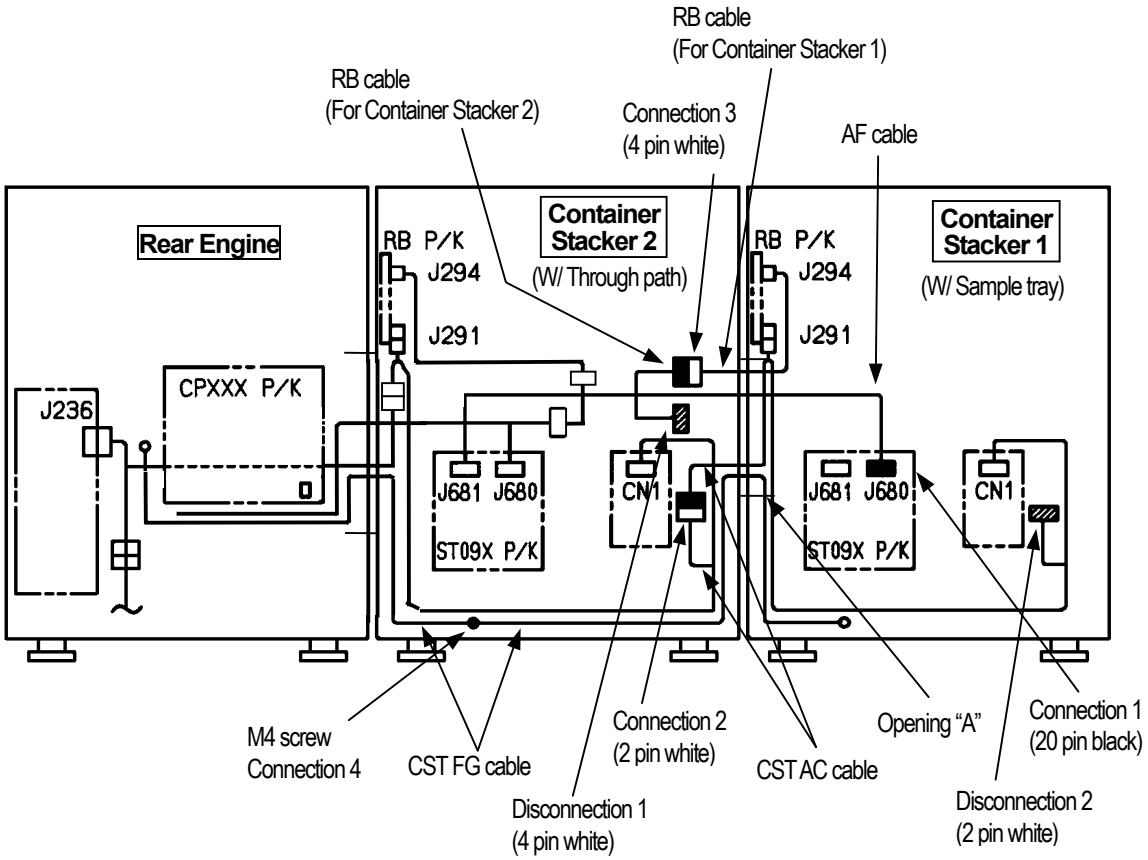
CHECK

Check the Gaps of A,B,C,D are nearly equal each other.

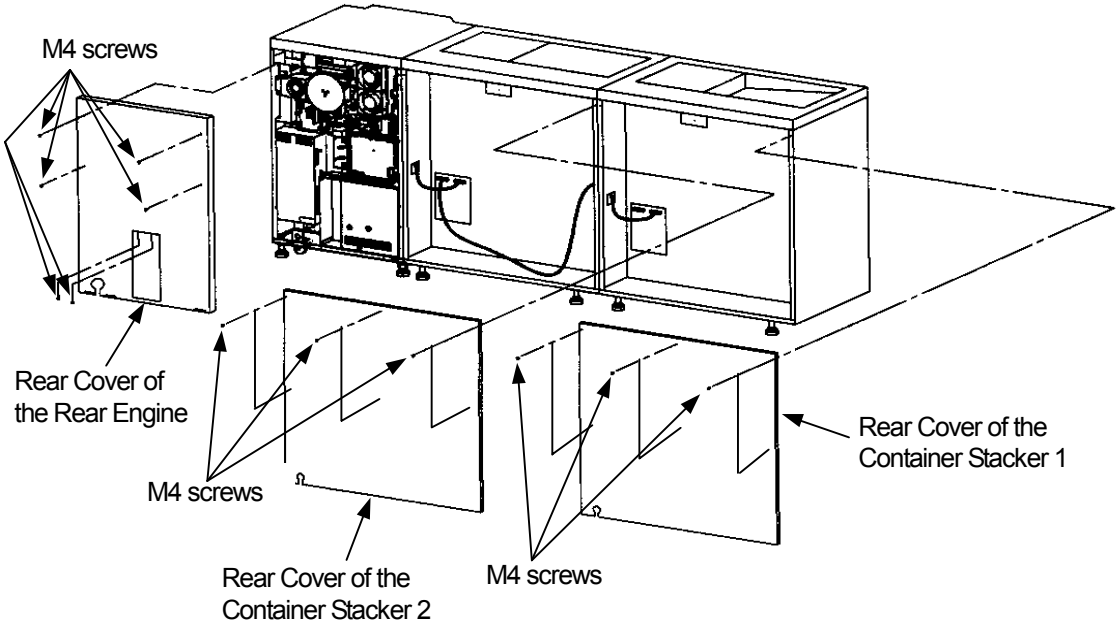


8) Connect the FNS IF cable (4 pin white connector) coming from the Container Stacker 2 to the J680 on the ST09X P/K of the Container Stacker 1. (Connection 1 on the below figure)
9) Take out the CST AC cable (2 pin white connector) from the Container Stacker 1 and connect it to the CST AC cable (2 pin white connector) of the Container Stacker 2. (Connection 2 on the below figure)
10) Take out the RB cable (4 pin white connector) from the Container Stacker 1 and connect it to the RB cable (4 pin white translucence) of the Container Stacker 2. (Connection 3 on the below figure)
11) Mount the CST FG cable coming from the Container Stacker 1 on the frame of the Container Stacker 2 by using M4 screw (Connection 4 on the below figure).
12) Turn on the No. 4 and No. 5 and turn off the No. 2 and 8 of the SW1 mounted on the CPXXX P/K of the Front Engine.

[Note] Put the cable through the opening "A" of the Rear Engine for connection.

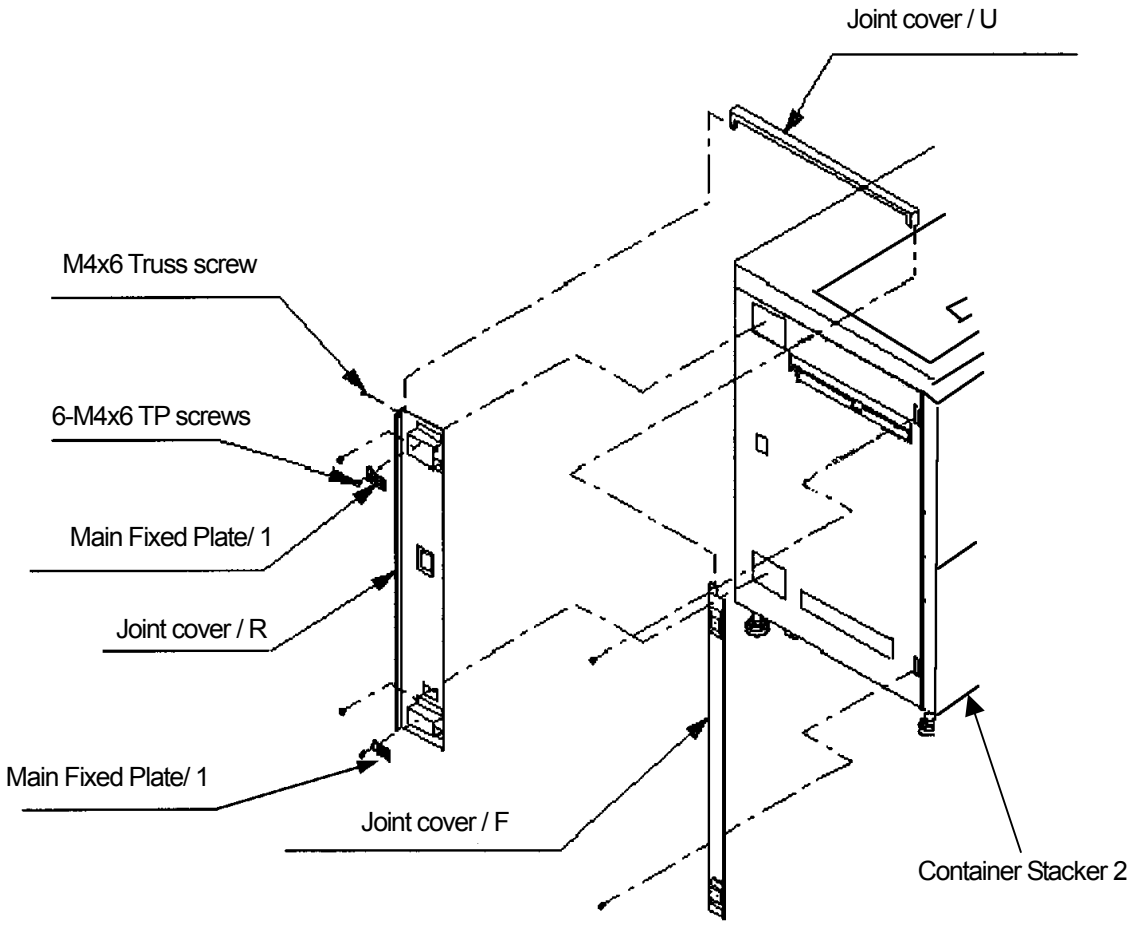


13) Install the Rear Covers of the Rear Engine, Container Stacker 1 and Container Stacker 2.



4.3.3 Connection of the Container Stacker 2 and Finisher

1) Install the Joint Cover /F, Joint Cover /U and Joint Cover /R to the Container Stacker 2, and install the two Main Fixed Plate/1 to the Joint Cover /R.



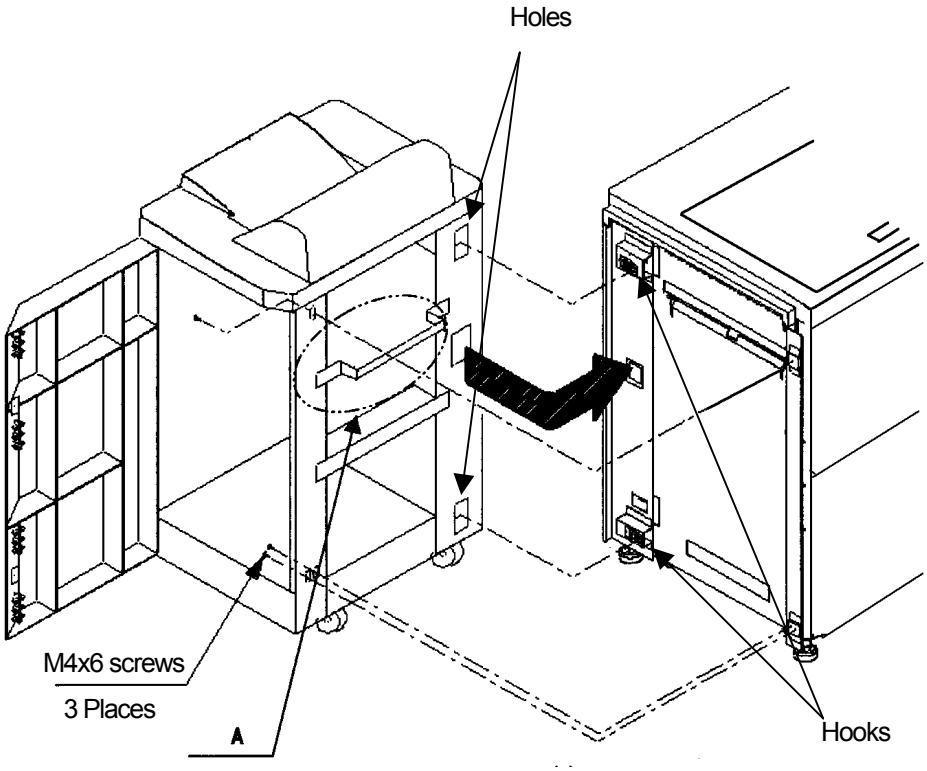
2) Remove the rear covers from the Rear Engine, Container Stacker 2 and Finisher.

3) Install the Finisher to the Container Stacker

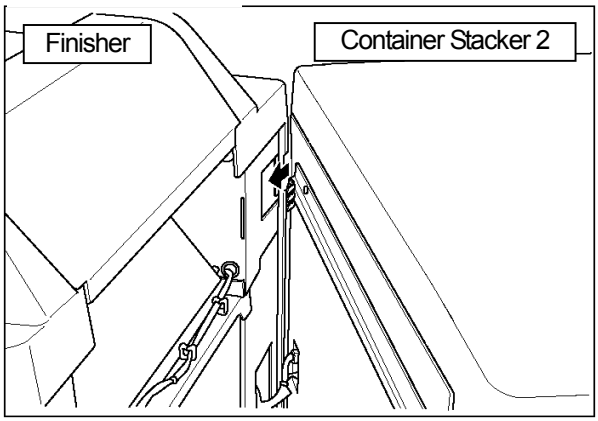
(1) Fit the hooks on the Container Stacker installation plates (upper and lower) into the upper and lower holes on the Finisher as illustrated below, then lock them by pushing the Finisher to the back.

CAUTION

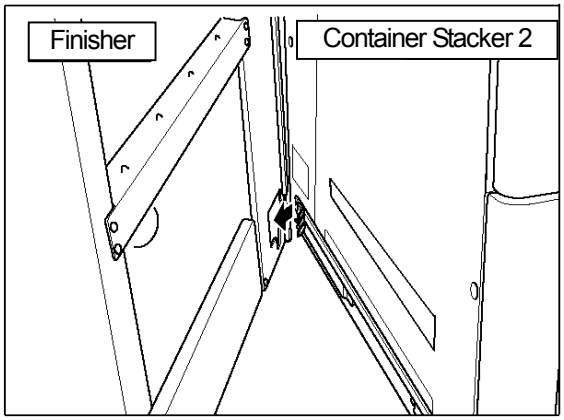
When installing the Finisher, don't hit following "A" part to the Printer.



Upper view

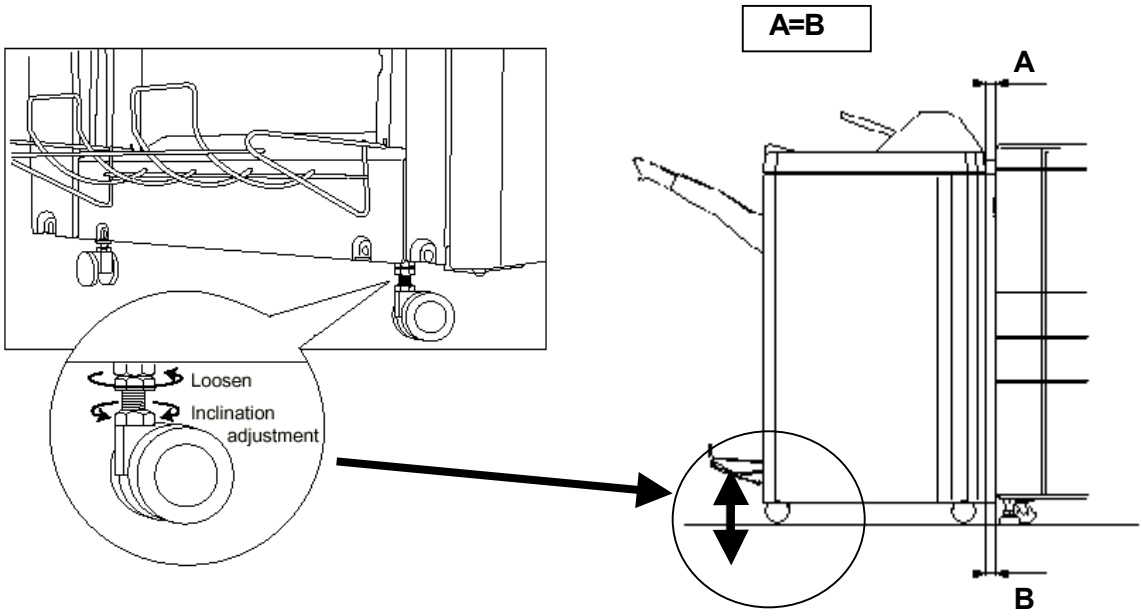


Lower view



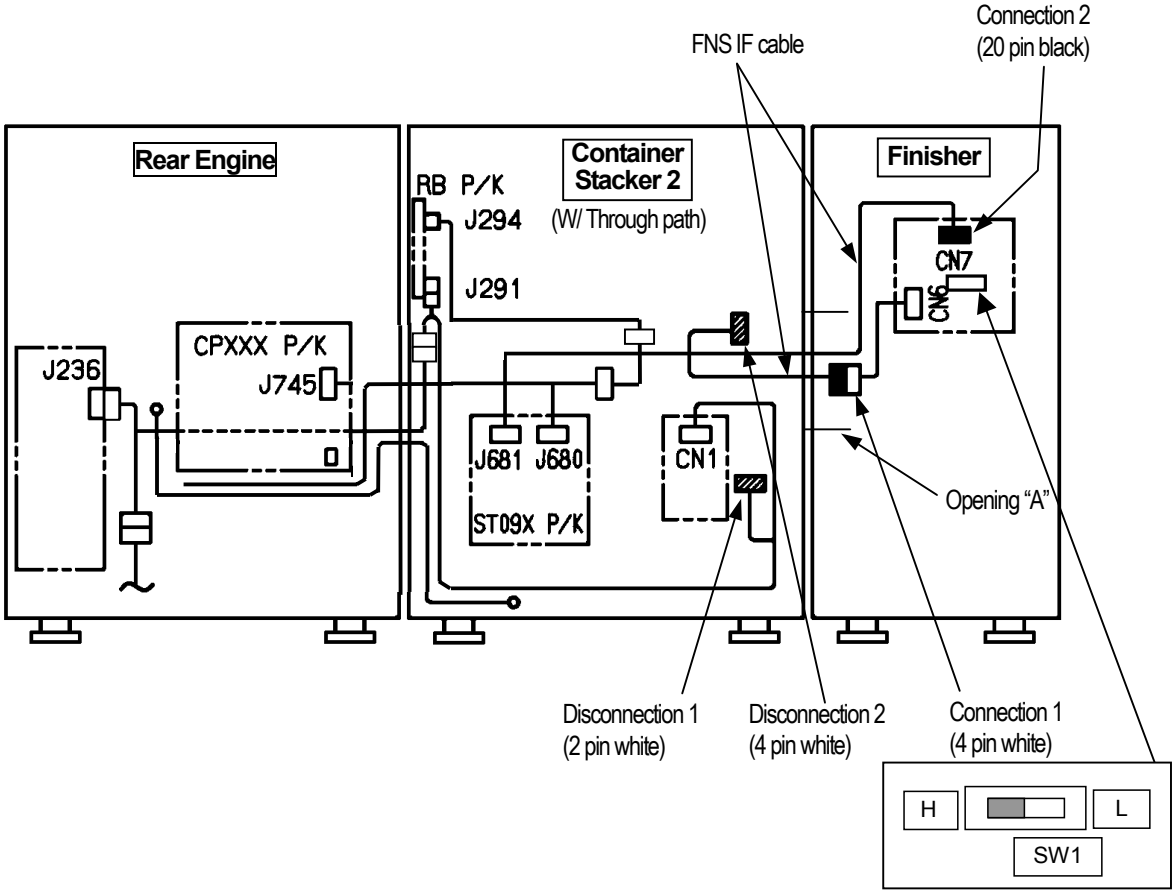
CAUTION

If the gap between the Finisher and Container Stacker is not equal from the top through the bottom, adjust it by the height of the front and rear casters on the paper exit side of the Finisher.



4) Connect the FNS IF cable (4 pin white connector) coming from the Container Stacker 2 to the 4 pin white connector in the Finisher (Connection 1 on the below figure).
5) Connect the FNS IF cable (20 pin black connector) coming from the Container Stacker 2 to the CN7 connector on the Finisher main P/K (Connection 2 on the below figure).
6) Turn on the No. 5 and 8 and turn off the No. 2 of the SW1 mounted on the CPXXX P/K of the Front Engine.
Turn on the "H" of the SW1 mounted on the P/K of the Finisher(FS-108R).
(RoHs Compliance Unit)

[Note] Put the cable through the opening "A" of the Container Stacker 2 for connection.



[FS-108R] (RoHS Compliance Unit)

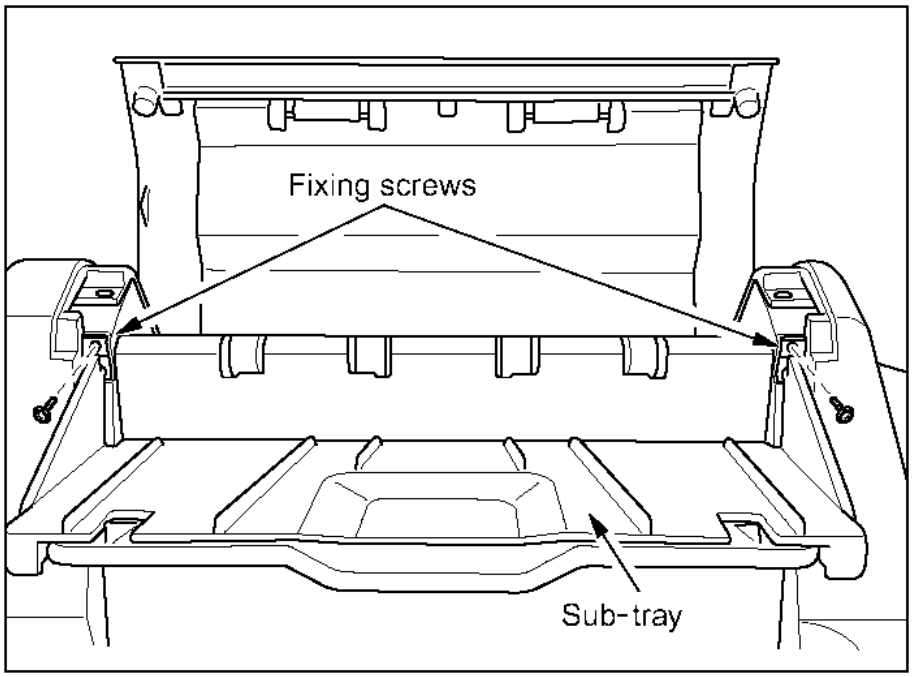
7) Install the Rear Covers of the Printer, Container Stacker 2 and Finisher.

4.4 Installation in the composition with the Cover Sheet Feeder

(Use only FS-108H & FS-108HBM. No RoHS Compliance Unit)

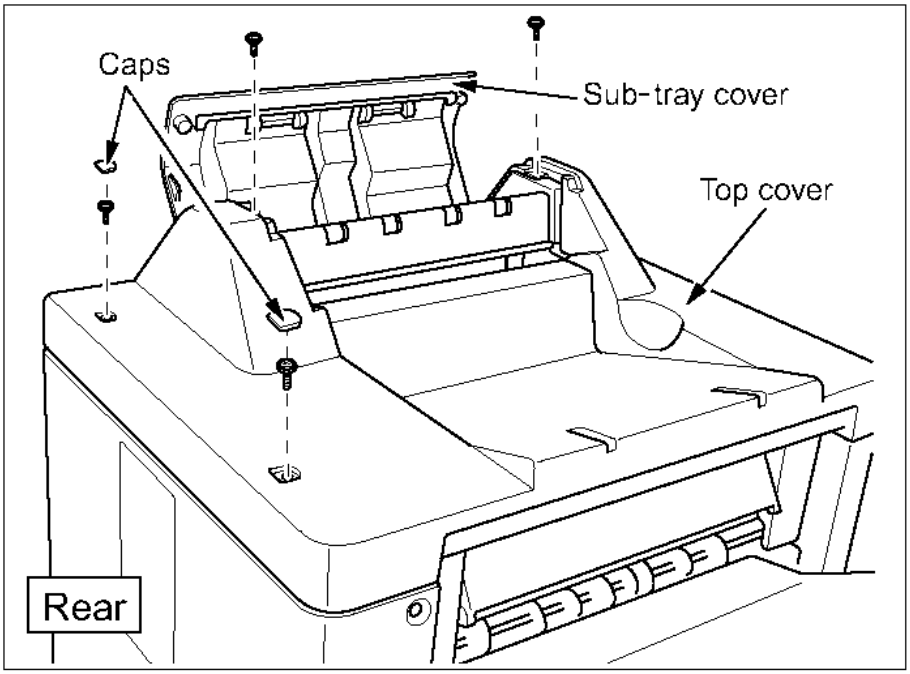
1) Remove the Top cover from the Finisher.

(1) Open the Sub-tray cover, remove the fixing screws, and then remove the Sub-tray.

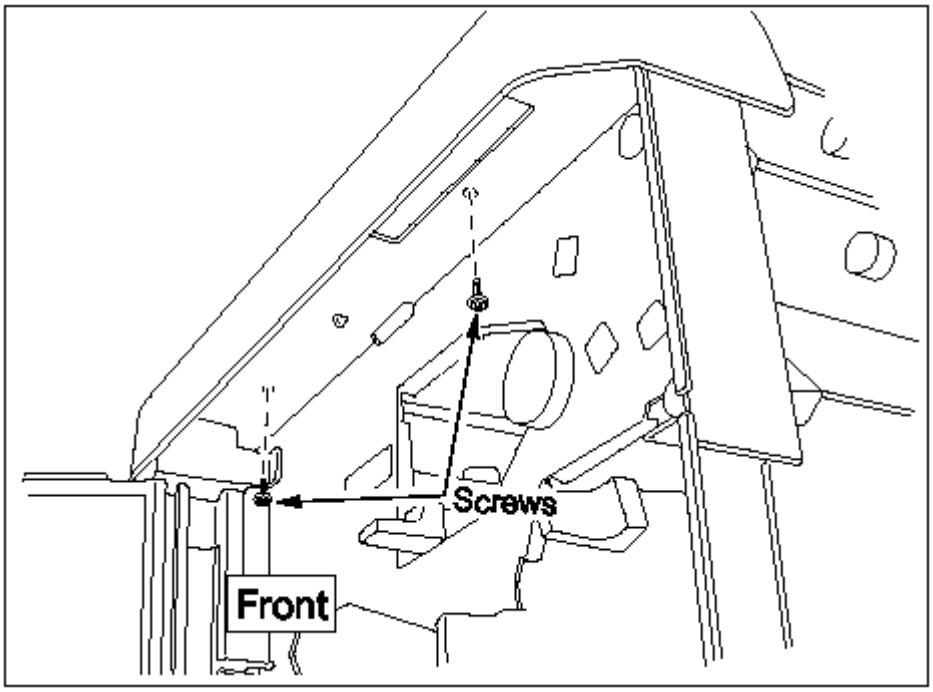


(2) Remove the Caps on the rear side of the Top cover and then remove the two screws.

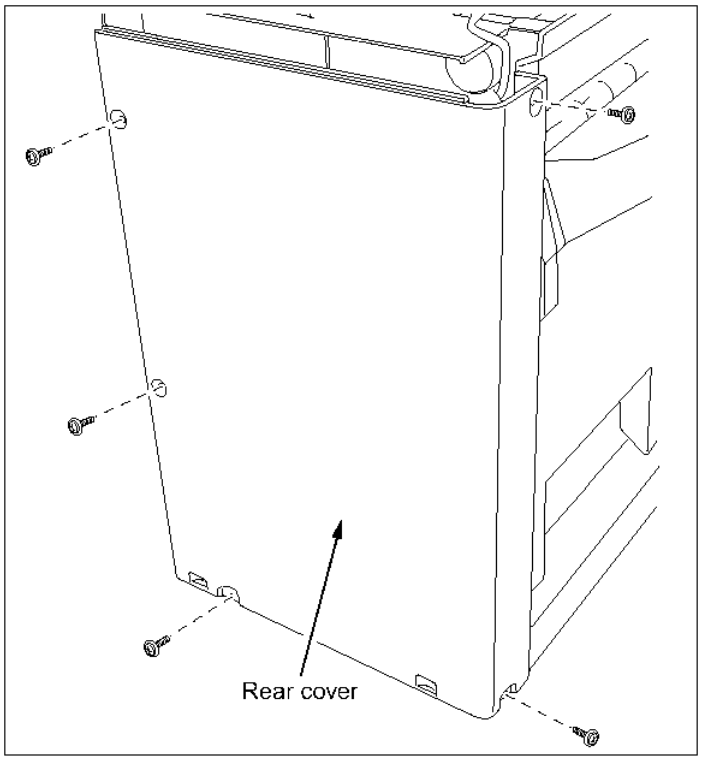
(3) Remove the two screws in the Sub-tray cover.



(4) Open the Front door, then remove the two screws from the front side of the Top cover.

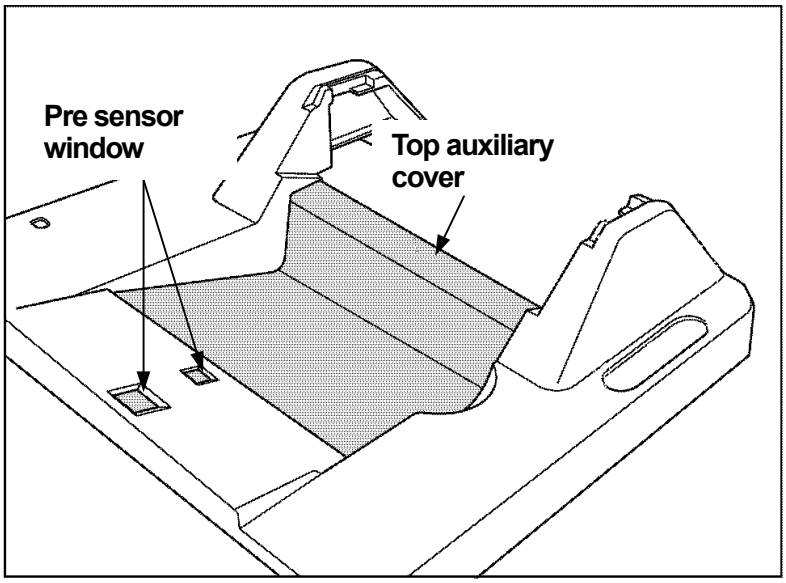


2) Remove the Rear cover from the Finisher.
Truss screw M4x6: 5

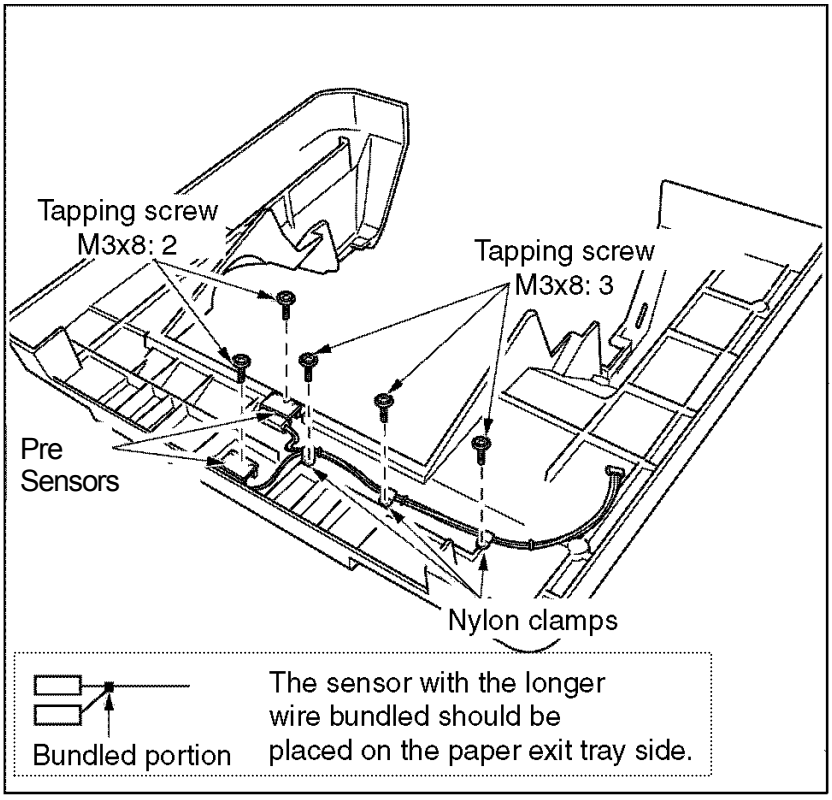


3) Cut off the coverings for the Cover Sheet Feeder fixtures from the Top cover.
   (1) Cut off the Top auxiliary cover.
   (2) Cut off the coverings for the Pre Sensor window.

   [Note] Remove any remaining burrs after cutting off the parts.



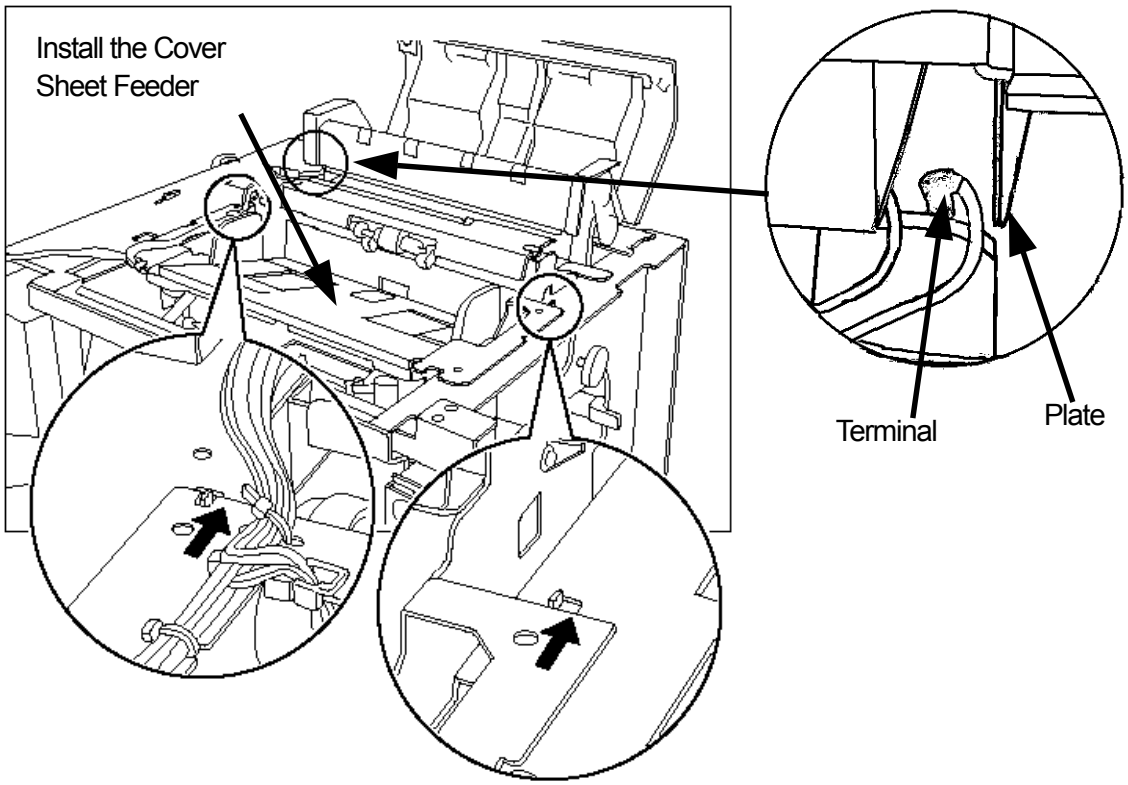
4) Install the accessories on the underside of the Top cover.
   (1) Install two Pre-sensors. (Tapping screw M3x8:2)
   (2) Secure the wires from the Pre-sensors with the Nylon clamps in three places. (Use three 3N Nylon clamps and three M3x8 Tapping screws.)


Tapping screw M3x8: 2
Tapping screw M3x8: 3
Pre Sensors
Nylon clamps
Bundled portion
The sensor with the longer wire bundled should be placed on the paper exit tray side.

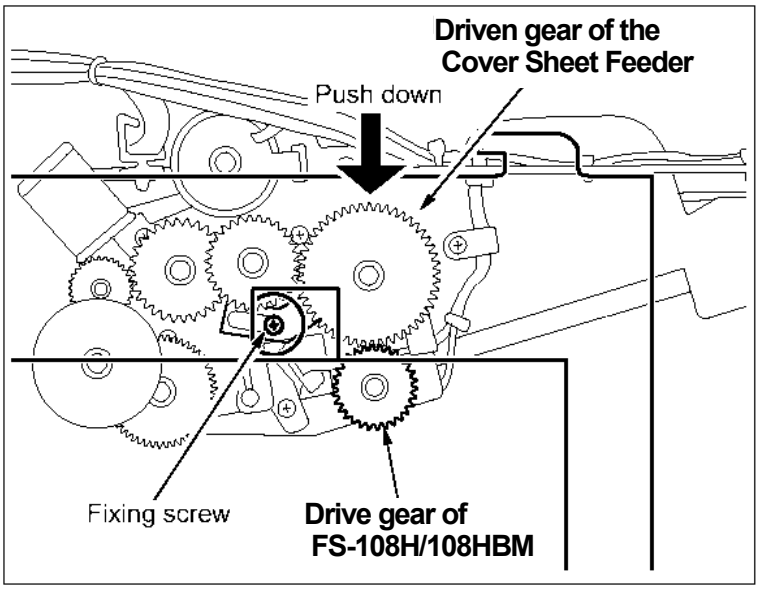
5) Install the Cover Sheet Feeder.

(1) Install the Cover Sheet Feeder on the top of the Finisher. (TP screw M4x6: 6)

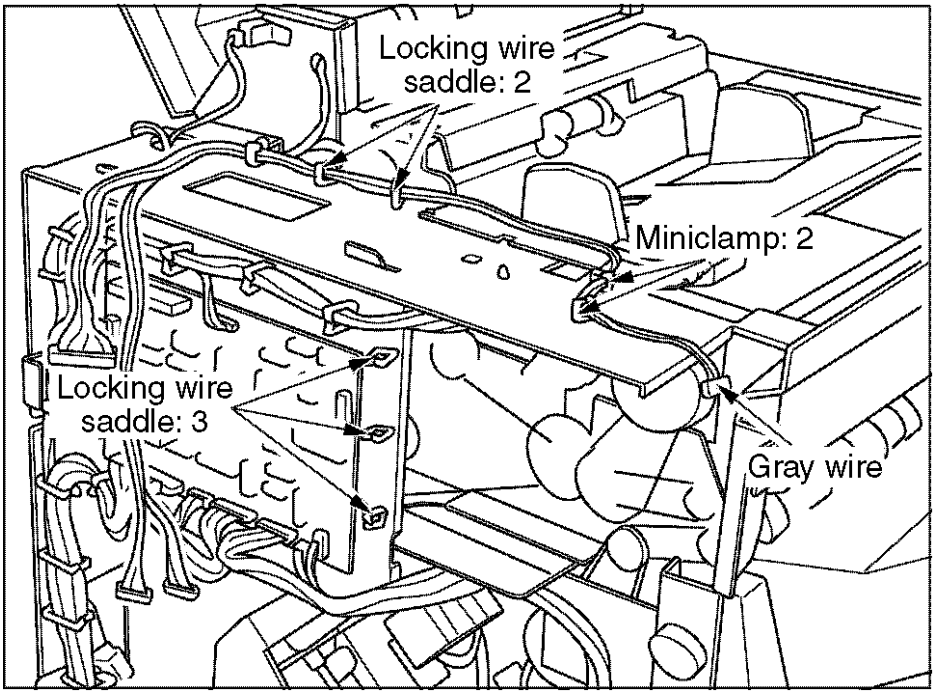
[Note] When installing the Cover Sheet Feeder, make sure to position it by pushing toward the Printer side.
Don't hit the terminal of motor to the plate edge.



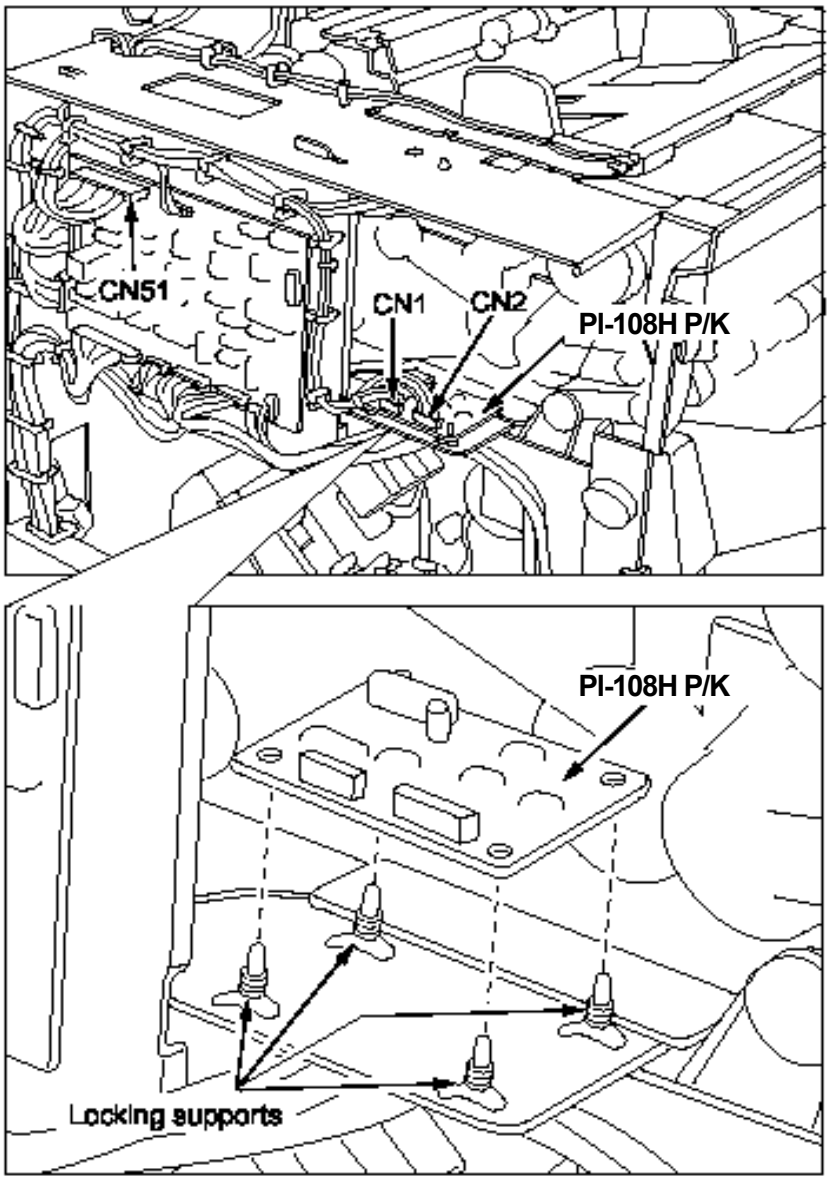
(2) Push down the Driven gear of the Cover Sheet Feeder so as to engage it with the Drive gear of the Finisher, then fix it with a screw.



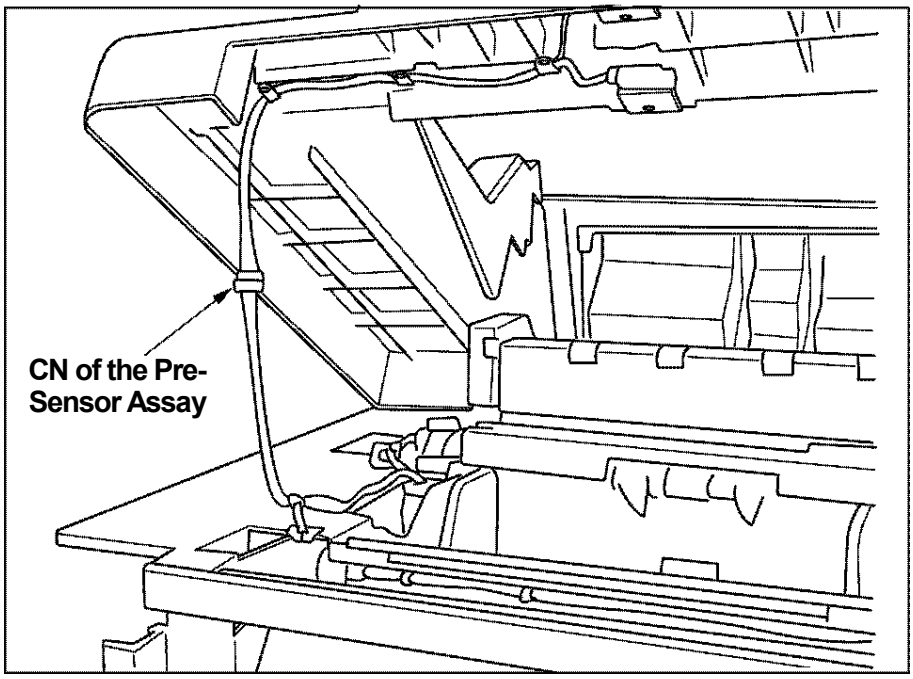
6) Arrange the wire bundle.
   (1) Insert five locking wire saddles into the Finisher.
   (2) Secure the bundle with three wire saddles on the top.
   (3) Insert the two Miniclamps into the Finisher.
   (4) Secure the gray wire with the two Miniclamps.



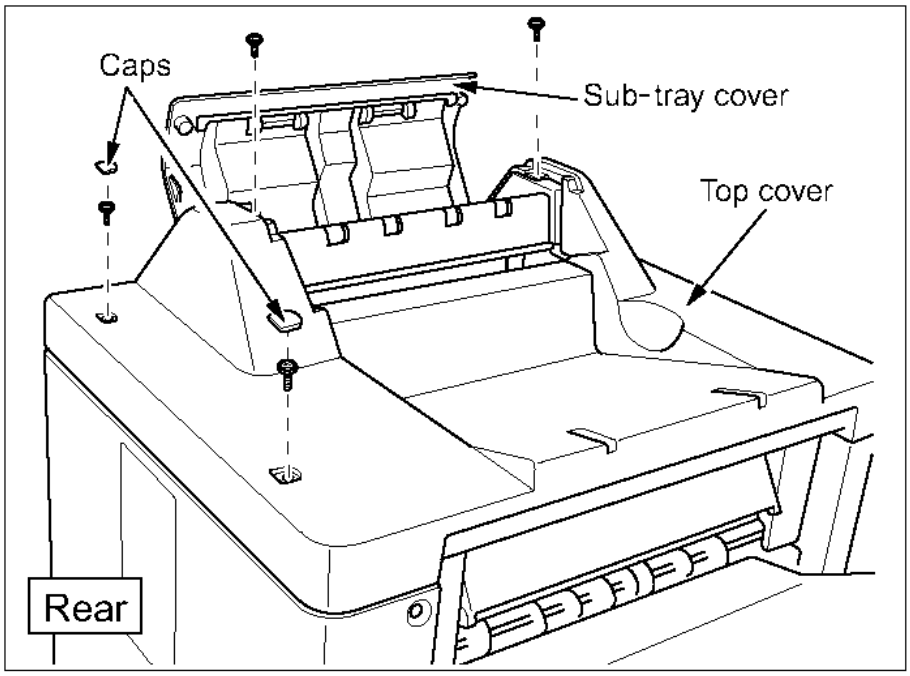
7) Arrange the wire bundle on the back of the Finisher and Install the PI-108H P/K.
   (1) Lead the remaining two wires from the Cover Sheet Feeder through the hole on the back the Finisher.
   (2) Connect the shorter CN to CN 51 on the FS-108H P/K / FS-108HBM P/K.
   (3) Insert the four locking supports.
   (4) Set the PI-108H P/K onto the locking support.
   (5) Connect the CN1 and CN2 to the PI-108H P/K.



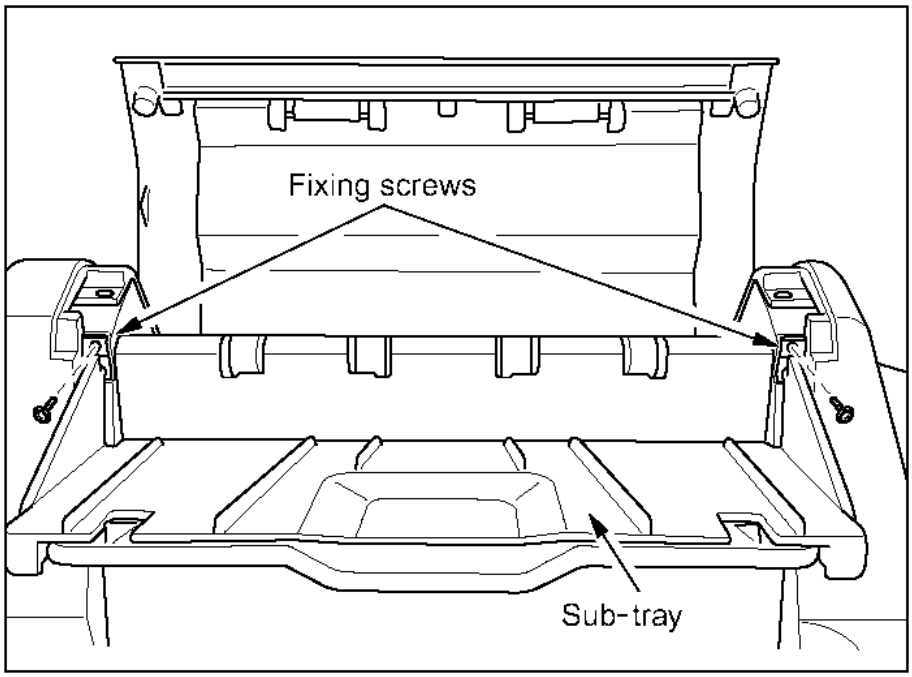
8) Reinstall the Top cover.
   (1) Connect the CN of the Pre Sensor Assay.



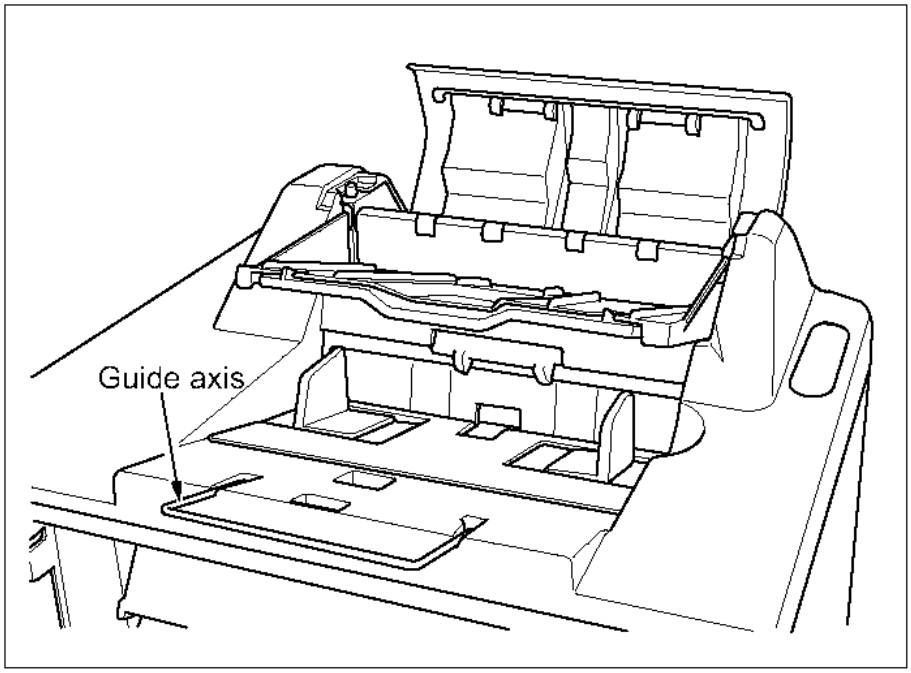
   (2) Set and tighten the two screws on the rear side of the Top cover and put the caps back on.
   (3) Set and tighten the two screws on the front side of the Top cover.
   (4) Set and tighten the two screws on the Sub-tray cover.



(5) Install the Sub-tray on the secondary exit portion, then fix it with the two screws.



9) Reinstall the Rear cover.
10) Install the Guide axis.



[Note]
The Printer detects the configuration error (E259) because a configuration information (without Cover Sheet Feeder) which the printer had memorized is different from one (with cover-sheet-feeder) reported from the finisher when the power supply injection after Cover Sheet Feeder attachment,
Confirm the connection of the connector(CN51 or CN1) in case that the Cover Sheet Feeder does not appear on the OCP though it is connected. (Refer to item 4.4 7)

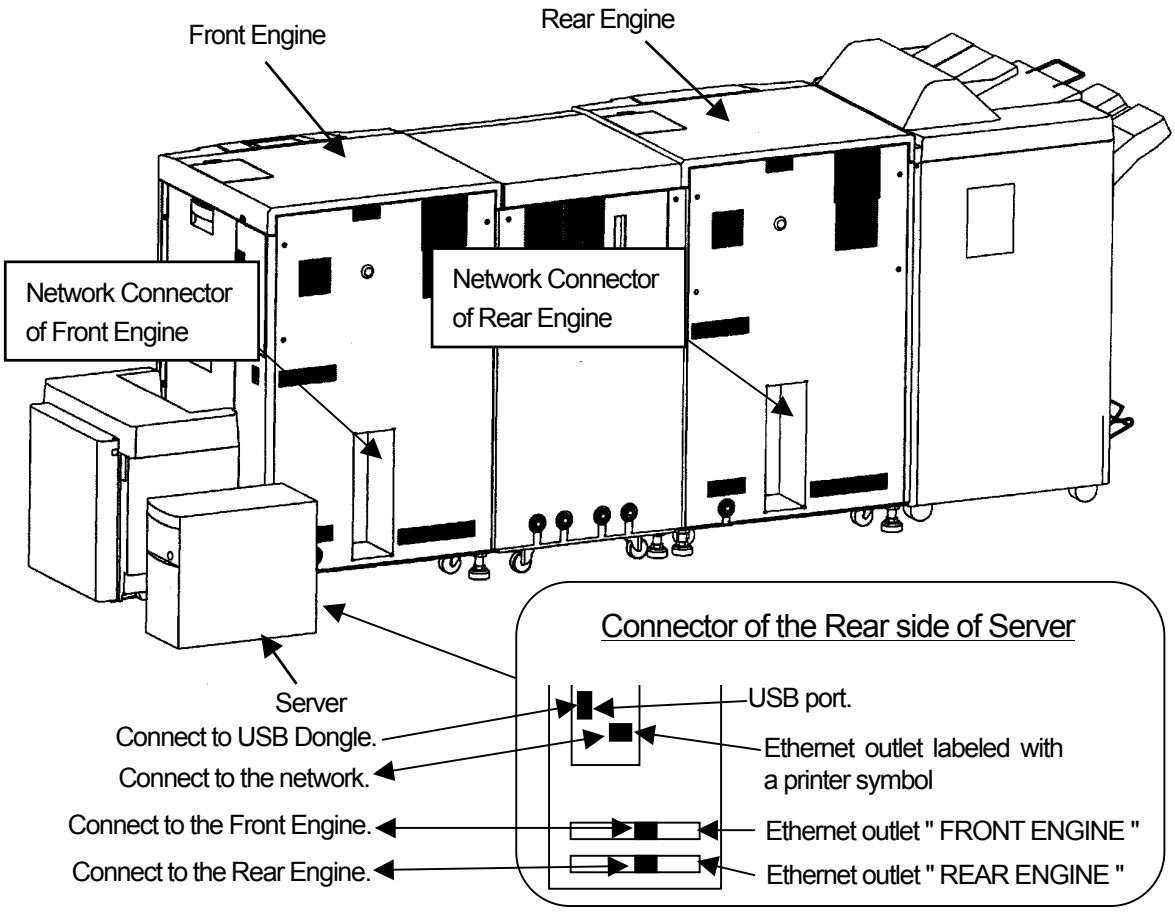
Chapter 5. Server Installation

5.1 Connecting to DDP Server

This chapter is aimed at the persons who has full knowledge about the system and the management concept of a network.

Please check to the network administrator who is responsible for the management of hosts, servers, and printers about the network environment before the registering the printer to the network.

Connections of cables


Front Engine
Rear Engine
Network Connector of Front Engine
Network Connector of Rear Engine
Server
Connect to USB Dongle.
Connect to the network.
Connect to the Front Engine.
Connect to the Rear Engine.
Connector of the Rear side of Server
USB port.
Ethernet outlet labeled with a printer symbol
Ethernet outlet " FRONT ENGINE "
Ethernet outlet " REAR ENGINE "

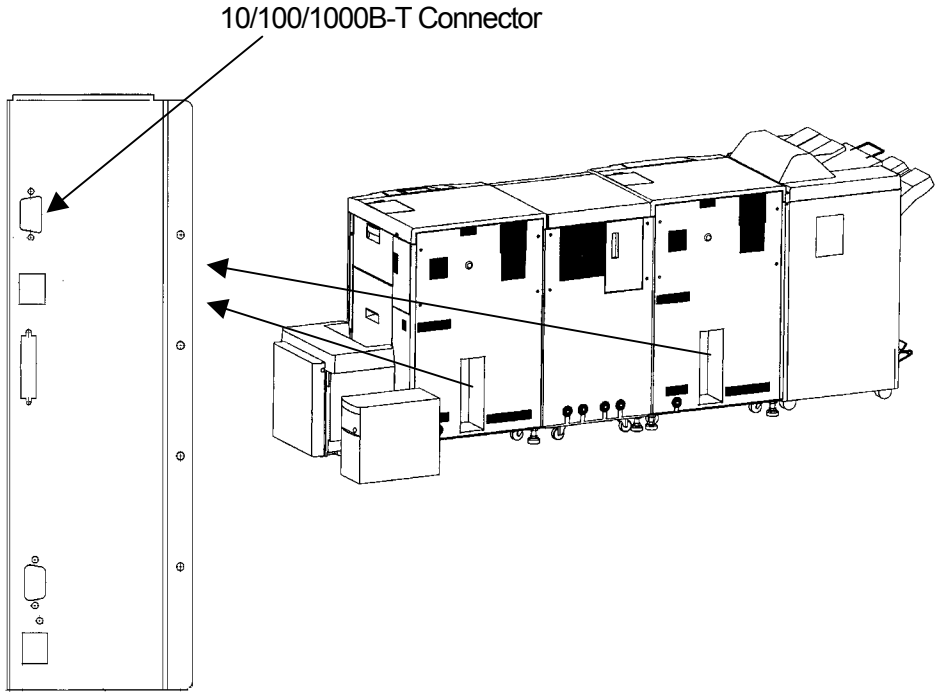
To connect the cables as described below.

1) Connect the USB Dongle to USB port.
2) Connect the Server to Printer engine by means of the enclosed Ethernet cross-link cables.
   Connect the Ethernet outlet " FRONT ENGINE " to the Front Engine.
   Connect the Ethernet outlet " REAR ENGINE " to the Rear Engine.

3) Connect the network cable to the Ethernet outlet labeled with a printer symbol at the rear side of Server.

CAUTION
Please connect Ethernet® cable to Network I/F before turn the printer power ON.

4) Connect 10 BASE-T/100BASE-TX/1000BASE-T cross cables which are attached with the DDP Server to 10/100/1000B-T Connector located at the rear of the printer.



5) Connect AC cable into AC connector on back side of DDP Server.

5.1.1 Setting the IP Address

The IP Address can be set from the Operator Control Panel (OCP).
Regarding Setup, refer to section of Operator Control Panel (OCP) Menu.

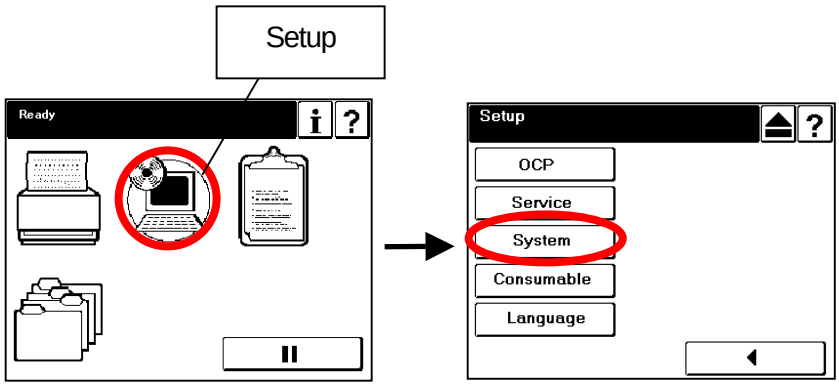
CAUTION

The DDP Server uses a fixed IP Address to DDP Engine which is set at factory. Therefore, you must not change the IP Address.

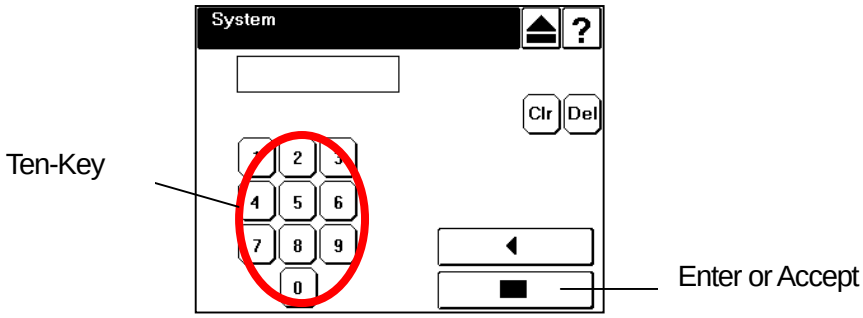
CAUTION

If you perform a setup in the situation that Ethernet cable is not connected to the Ethernet I/F, you need to turn printer power OFF/ON after connecting Ethernet cable.

1) Choose a display screen in the order of the following on a main menu screen.
Setup / System / Password

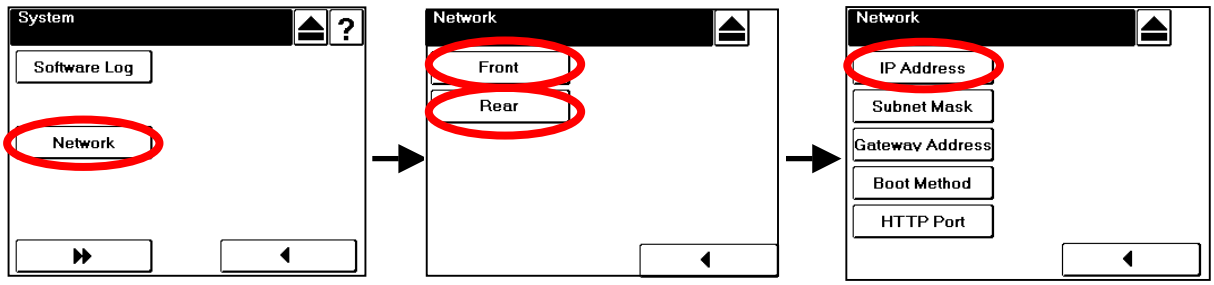


2) A “System Password” is inputted with a ten key and a "Enter or Accept" key is pushed.

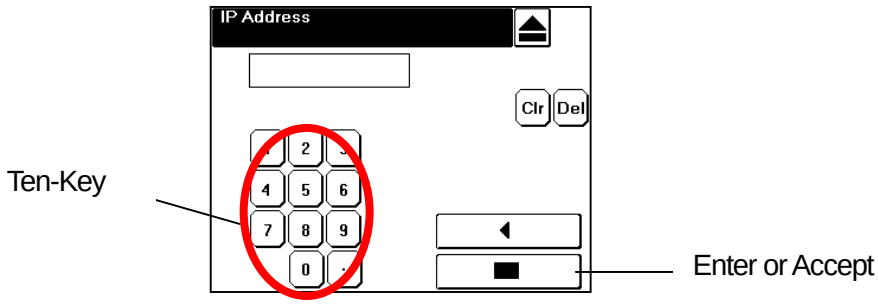


3) Choose following screen.

Network / Select Engine / IP Address



4) “IP Address(EX.:192.1.1.195)” is inputted with a ten key and “Enter or Accept” key is pushed. It is necessary to input a dot "." at this time.



5) When you set up items other than an IP address, please push an applicable item and perform in the same procedure as item 4).

5.2 Confirming MAC Address

The MAC Address can be confirmed by OCP.
Follow the procedure shown below at the information screen displayed by pushing [i] switch on the Main Menu.

1) When the Onboard Network I/F (10/100BASE-T AUX) is being used as Network I/F Select [Network] to display the MAC Address and the IP Address of the Onboard Network I/F.

5.3 Install printer driver

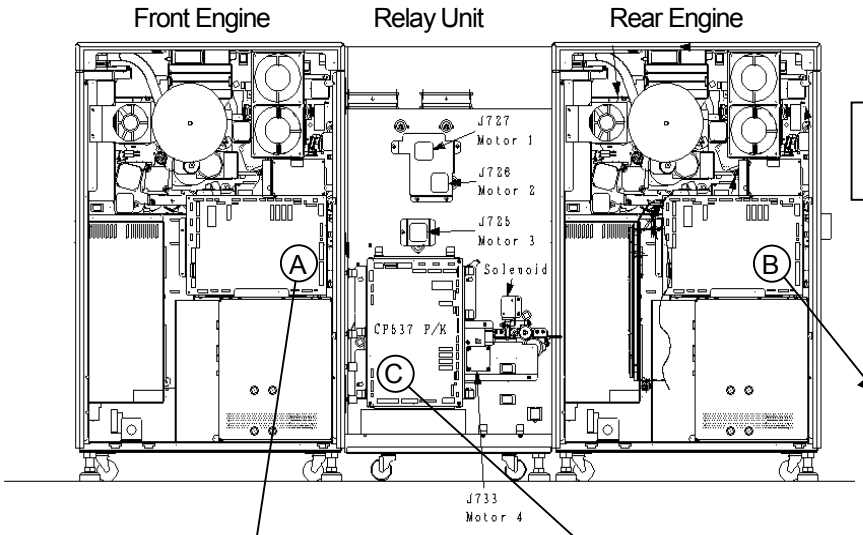
Install a printer driver in client PC according to CD-ROM appended to each OS.
Refer to DDP Server/User's Guide for details.

BLANK

Chapter 6. Checks

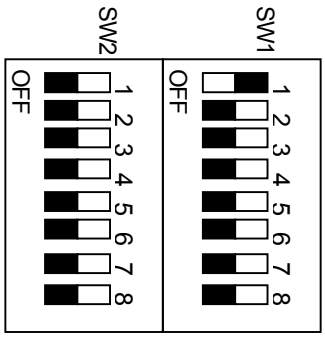
6.1 Check the Dip Switch on CP P/K for configuration

The DIP Switch on CP P/K need to be set up by the option. A setup of DIP Switch is shown below.



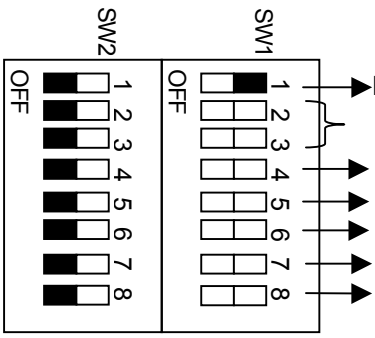
A, B and C are positions of the DIP Switch.

Rear Engine (CP6xx Ass'y)



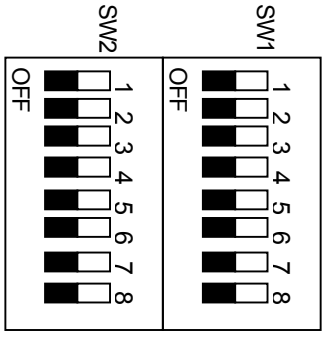
Only the DIP Switch (SW1) of the CP6xx P/K of the Front Engine is set according to the following configuration.

Front Engine (CP6xx Ass'y)



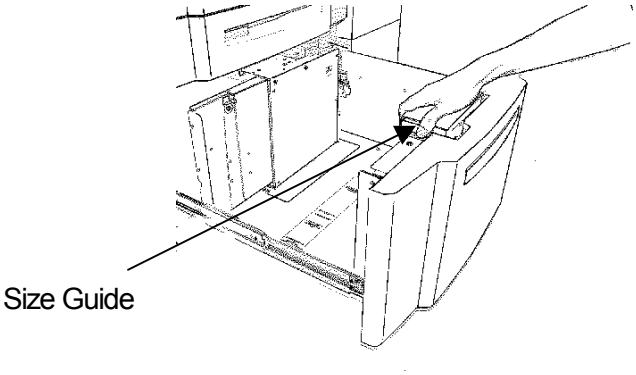
Fixed "ON"
Normal "OFF"
With CS2 ; "ON" position
With CS1 ; "ON" position
With HCF ; "ON" position
Normal "OFF"
With FS108H/BM/PI108H; "ON" position

Relay Unit (CP5xx Ass'y)

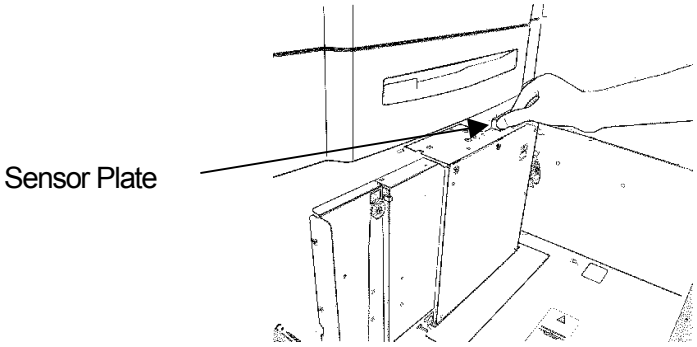


6.2 Confirmation of the paper size indication

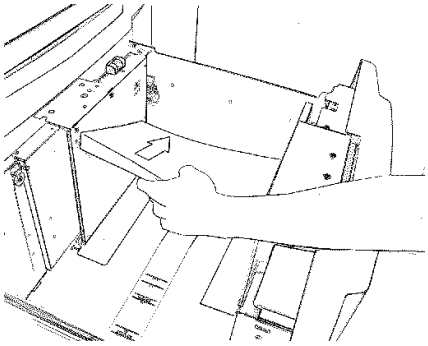
1) Adjust the size guide of tray 1 to the A4 size or the Letter size.



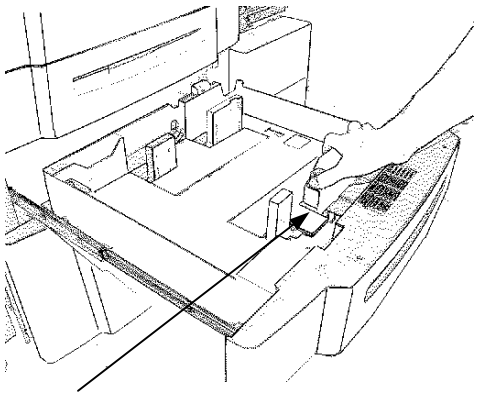
2) Adjust the sensor plate of tray 1 to A4 or LTR.



3) Place the A4 size paper or the Letter size paper into the tray 1.



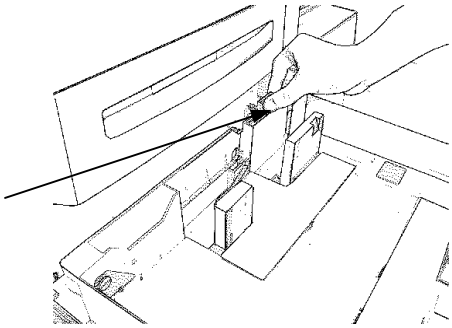
4) Adjust the size guide of tray 2 and tray 3 to the A4 size or the Letter size



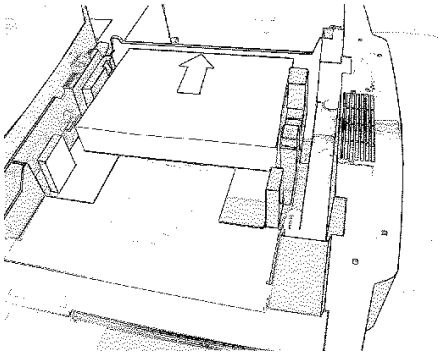
Size Guide

5) Adjust the sensor plate of tray 2 and tray 3 to A4 or LTR.

Sensor Plate

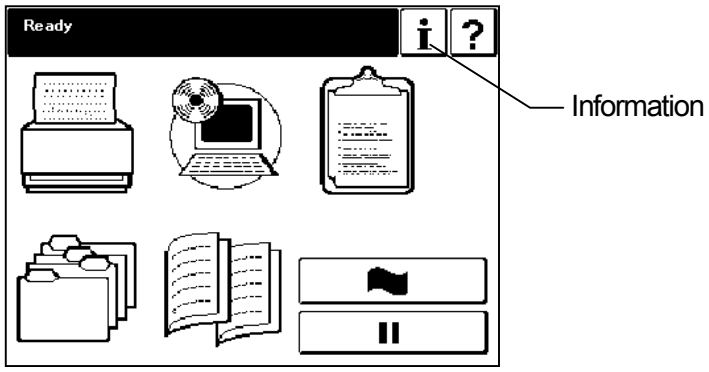


6) Place the A4 size paper or the Letter size paper into the tray 2 and the tray 3.



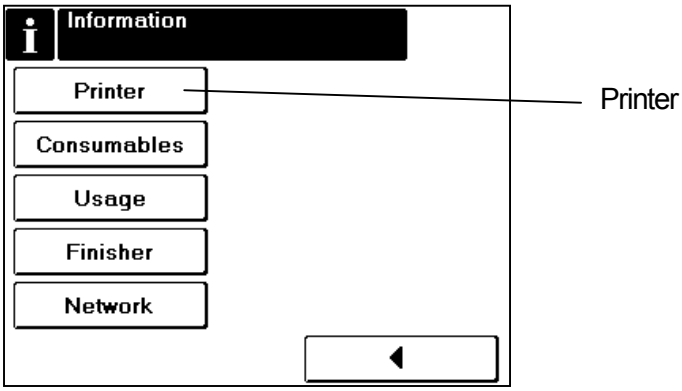
7) Push the [information] switch in the main menu screen.

[Main Menu]



8) Push the [Printer] switch in the information menu screen.

[Information Menu]



9) Confirm that the paper size of the tray 1,2,3 is the A4 size or the Letter size in the information - printer screen.

10)Push [◀] button twice, and return to the main menu screen.

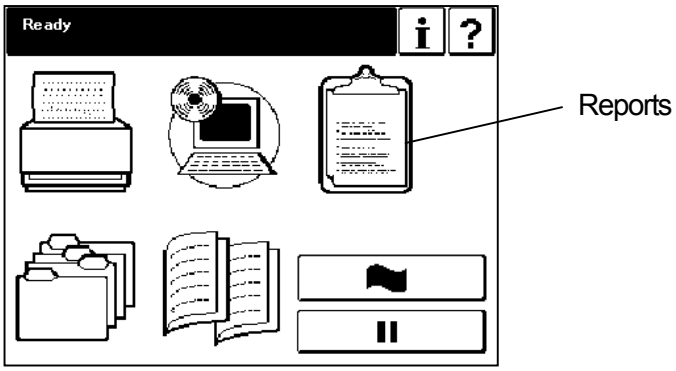
6.3 Check the Detach Voltage

The Detach Voltage is sensitive to altitude, humidity, and paper type. Therefore, it is necessary to be set appropriately according to altitude of installation site. When the installation site is 1300ft or more, set the Detach Voltage according to the procedure as shown in Appendix 4.

6.4 Printing of the status reports

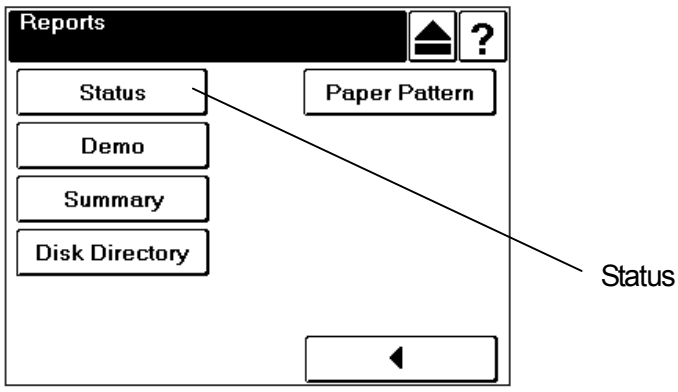
1) Push the [Reports] switch in the main menu screen.

[Main Menu]



2) Push the [Status] switch in the reports menu screen.

[Reports Menu]

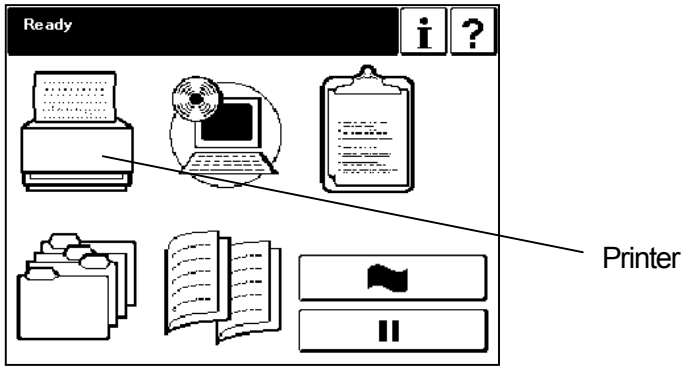


3) It is returned automatically to the main menu, and the Status page is printed.

6.5 Check the print contamination

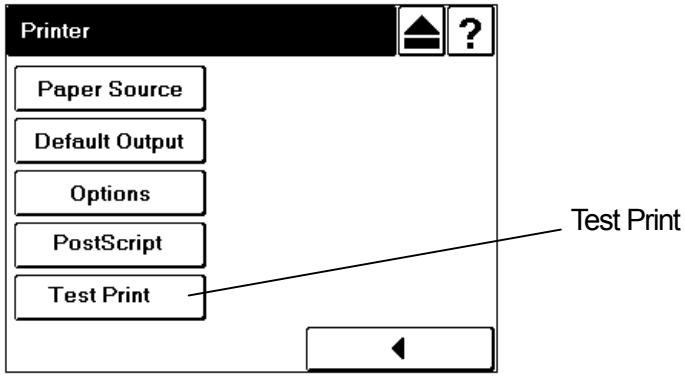
1) Push the [Printer] switch in the main menu screen.

[Main Menu]



2) Push the [Test Print] switch in the printer menu screen.

[Printer Menu]



3) The way of test printing is as follows.

Printer / Test Print / Print Quality / Text File 4% / Tray * / Elevator Tray / Color Duplex / 1 (Copies)

* Input either tray

4) Confirm that there is no printing contamination when sampling print samples. If contaminated print samples, clean the contaminated parts or continuous printing.

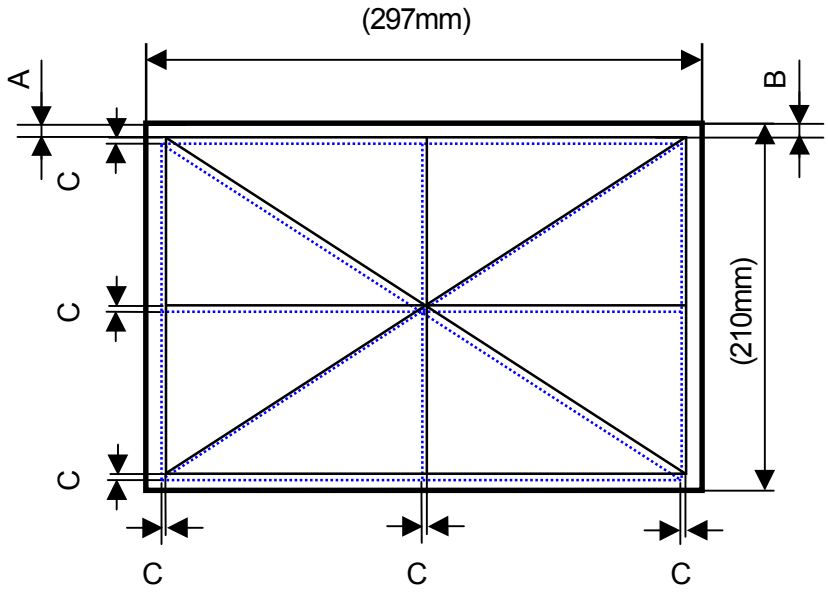
6.6 Confirmation of paper skew

This confirmation is applied to DDP184.

1) Set the A4 size paper (80g/m2) or the letter size paper (75g/m2) in tray 1, tray 2, and tray 3.
2) Print the cross pattern of test print from tray 1, tray 2 and tray 3.
   The way of test printing is as follows.

   Printer / Test Print / Print Quality / Cross Pattern / Tray* / Elevator Tray / Color Duplex / 5 (Copies)
   * Input either tray

3) Confirm inclination and positional gap of the line printed with front engine and rear engine.



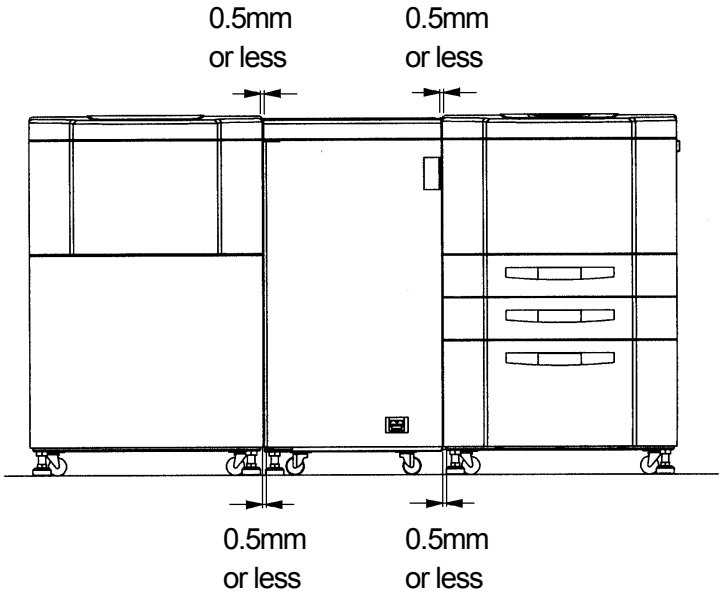
——— : The line printed with front engine

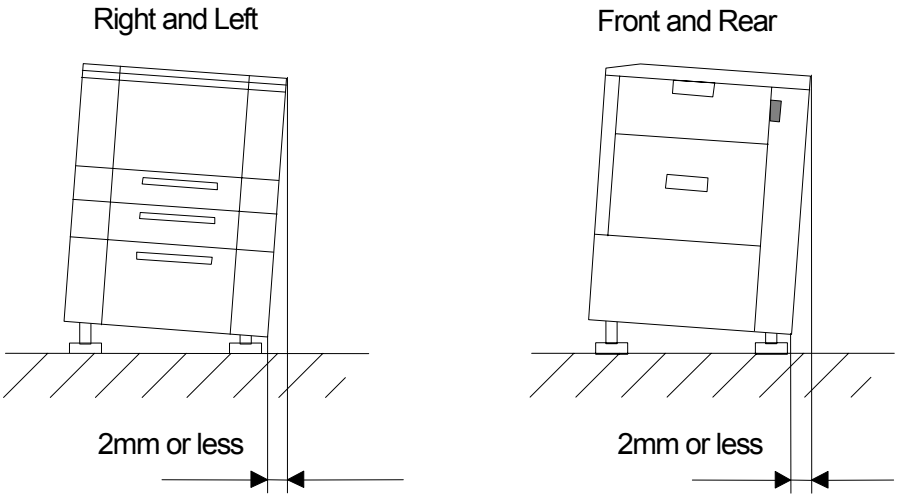
····· : The line printed with rear engine

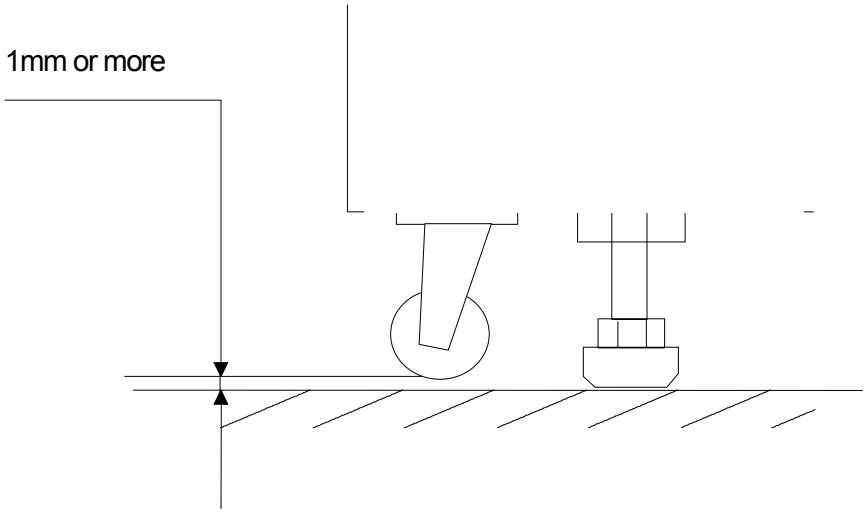
|A-B|<2mm C<1mm

If above value isn't satisfied, check the connection of engine and curl of the paper in tray.

4) Confirm the following.
   i) The gap between the rear engine and the relay unit
   ii) The gap between the relay unit and the front engine
   iii) The gap between all caster and the floor
   iv) Inclination in all directions of the front engine, the rear engine, the relay unit
   v) Curl of the paper in the tray

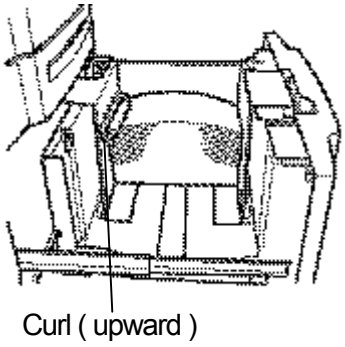

0.5mm
or less
0.5mm
or less
0.5mm
or less
0.5mm
or less

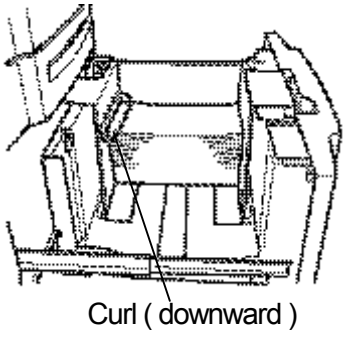

Right and Left
Front and Rear
2mm or less
2mm or less

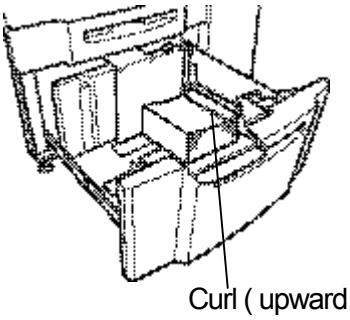

1mm or more

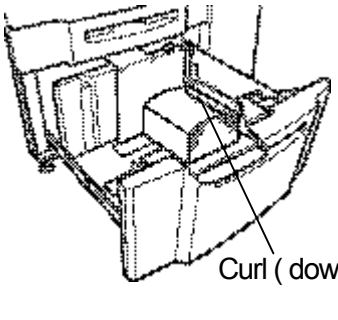
5) If the paper have any curl, set the papers based on the following or change the paper.

[Good] [NG]









6.7 Check the Tray Calibration

1) After installation, confirm the horizontal print position when sampling print samples. If there is difference of horizontal print position between the Front Engine and Rear Engine, adjust the horizontal print position. Refer to the Controller Maintenance Manual “Engine Setting Menu - Tray Calibration”.

6.8 Confirmation of the stapling

When DDP92/184 Standard Finisher or DDP92/184 Booklet Finisher was installed.

1) The way of test printing is as follows.

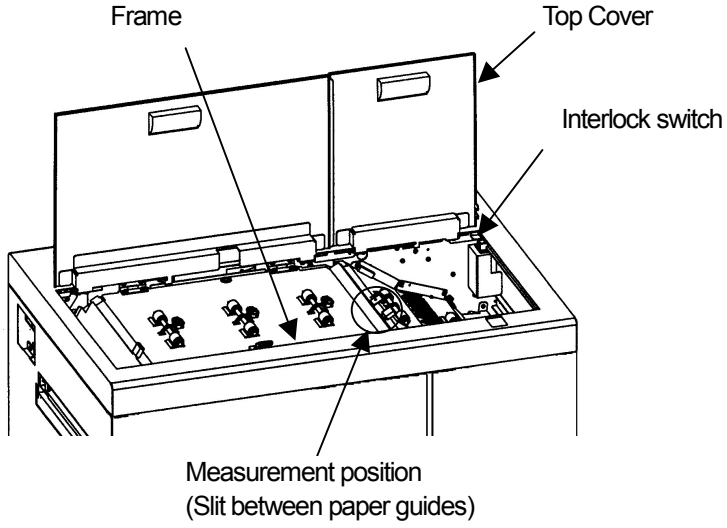
Printer / Test Print / Finishing Test / Staple : Booklet / 1 (Tray)

2) It is returned automatically to the main menu, and three sheets of paper are stapled.

6.9 Adjustment of paper feeding position of Tray 1

When Container Stacker 1 or Container Stacker 2 was installed.
This adjustment is applied to DDP184.
The hopper spacer has already adhered. Therefore, the addition of hopper spacer is unnecessary. When container stacker 1 and container stacker 2 are installed, confirm paper feeding position in container stacker 2.

1) Print the same sized paper from tray 1 and tray 2, and check the paper feeding position.
2) In case that the configuration includes Container Stacker 1, check the paper feeding position on the sample tray.
3) In case that the configuration includes Container Stacker 2, open the Top Cover of the Container Stacker 2 , insert the cheater in the interlock switch, and check the paper feeding position on the slit between paper guides.
   -The cheater is in the accessory box of the printer.
4) Set a standard point in the sample tray and the frame of Container Stacker and check the gap of the paper feeding position between tray 1 and tray 2, whether the paper is closer to the front side or the rear side.
5) When the gap of the paper feeding position between tray 1 and tray 2 is 2mm or more, correct the connection of the printer according to the Chapter4 Installation.



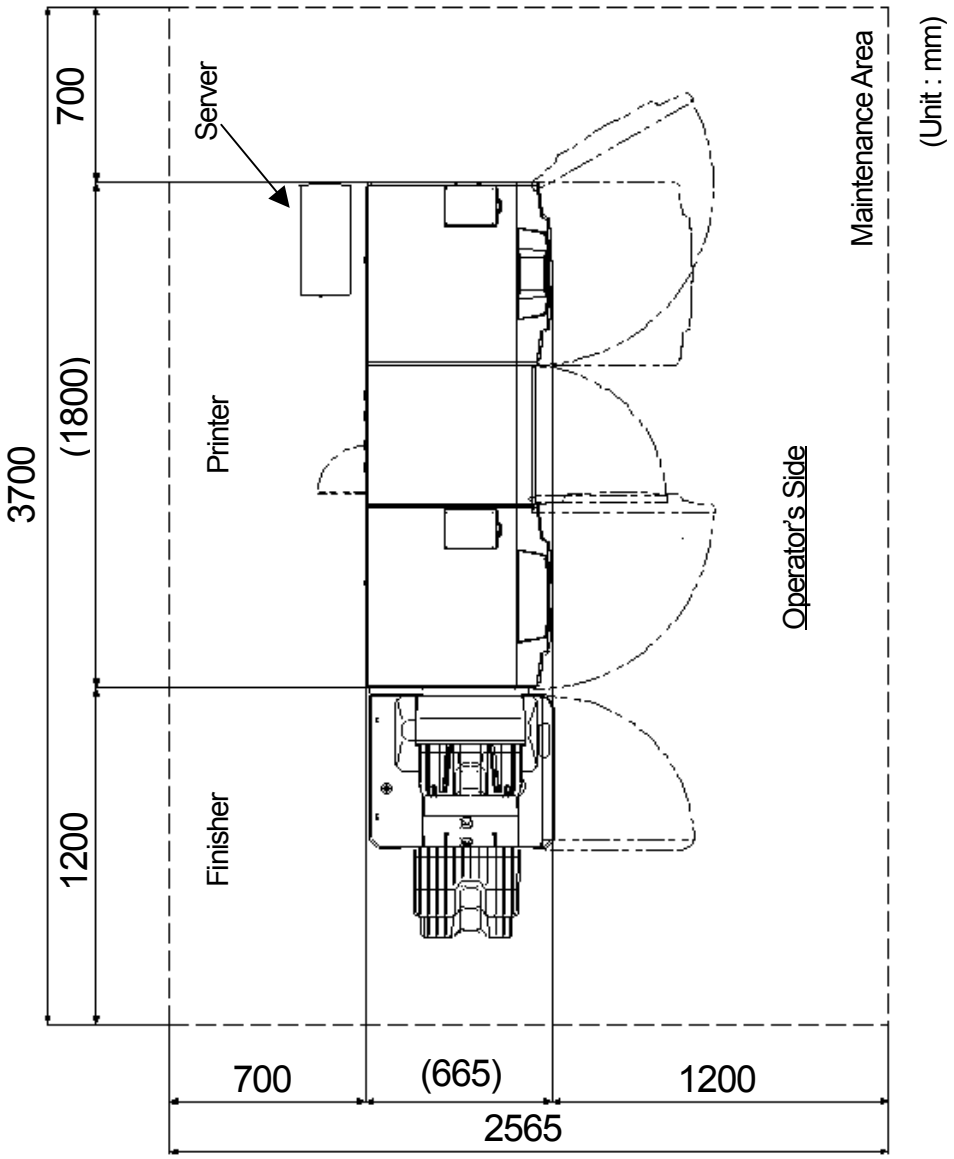
Container Stacker2

Appendix 1. Installation Area Information

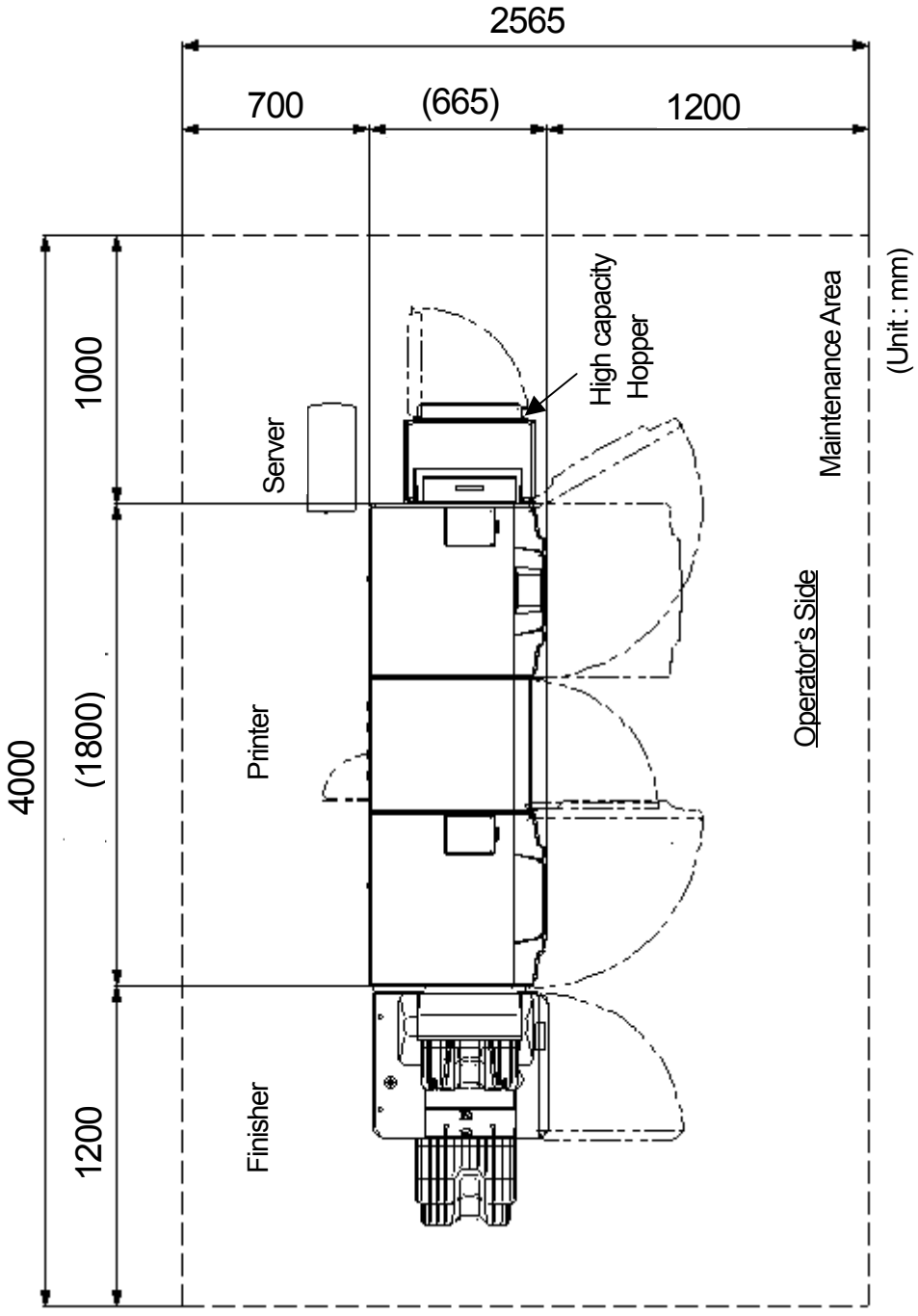
CAUTION

* Don't install the Server in the following place.
  The position in which the Cover and the Tray cannot be opened.
  Under the tray of the Finisher.
  Front of exhaust fan.
  Top of the Printer.

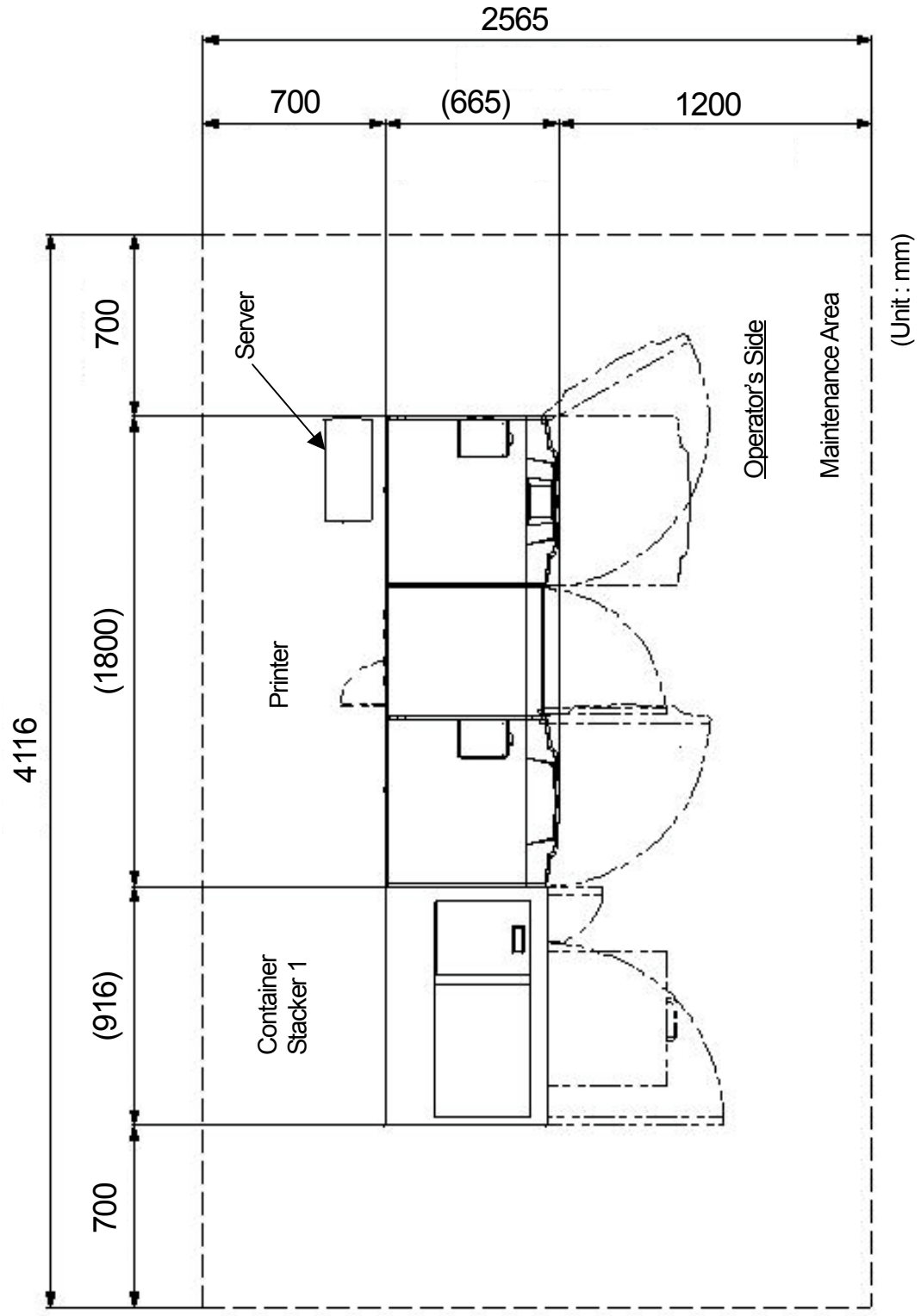
Appendix 1.1 Installation/maintenance area of the Printer and Finisher.



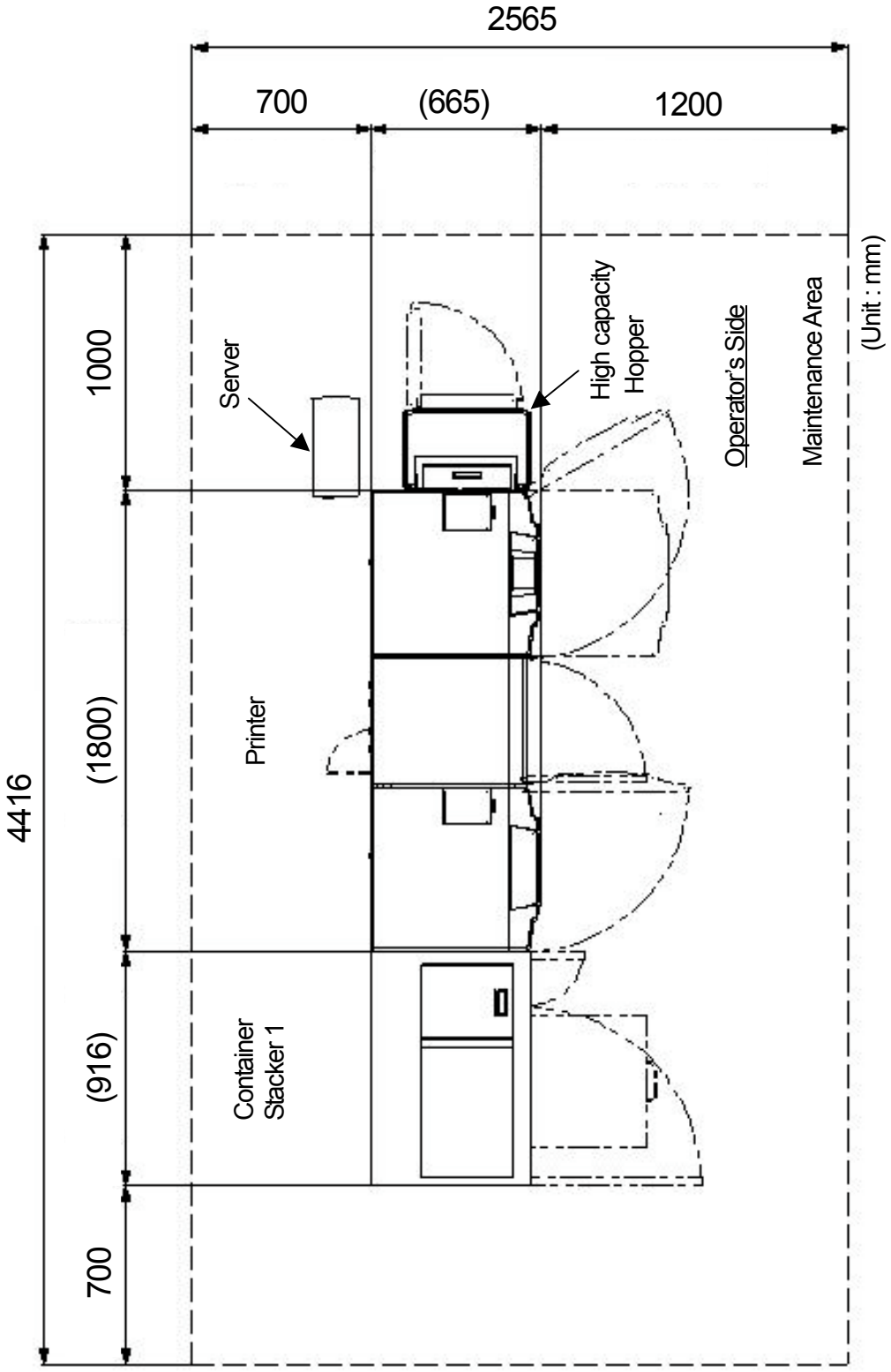
Appendix 1.2 Installation/maintenance area of the Printer, High Capacity Hopper and Finisher.



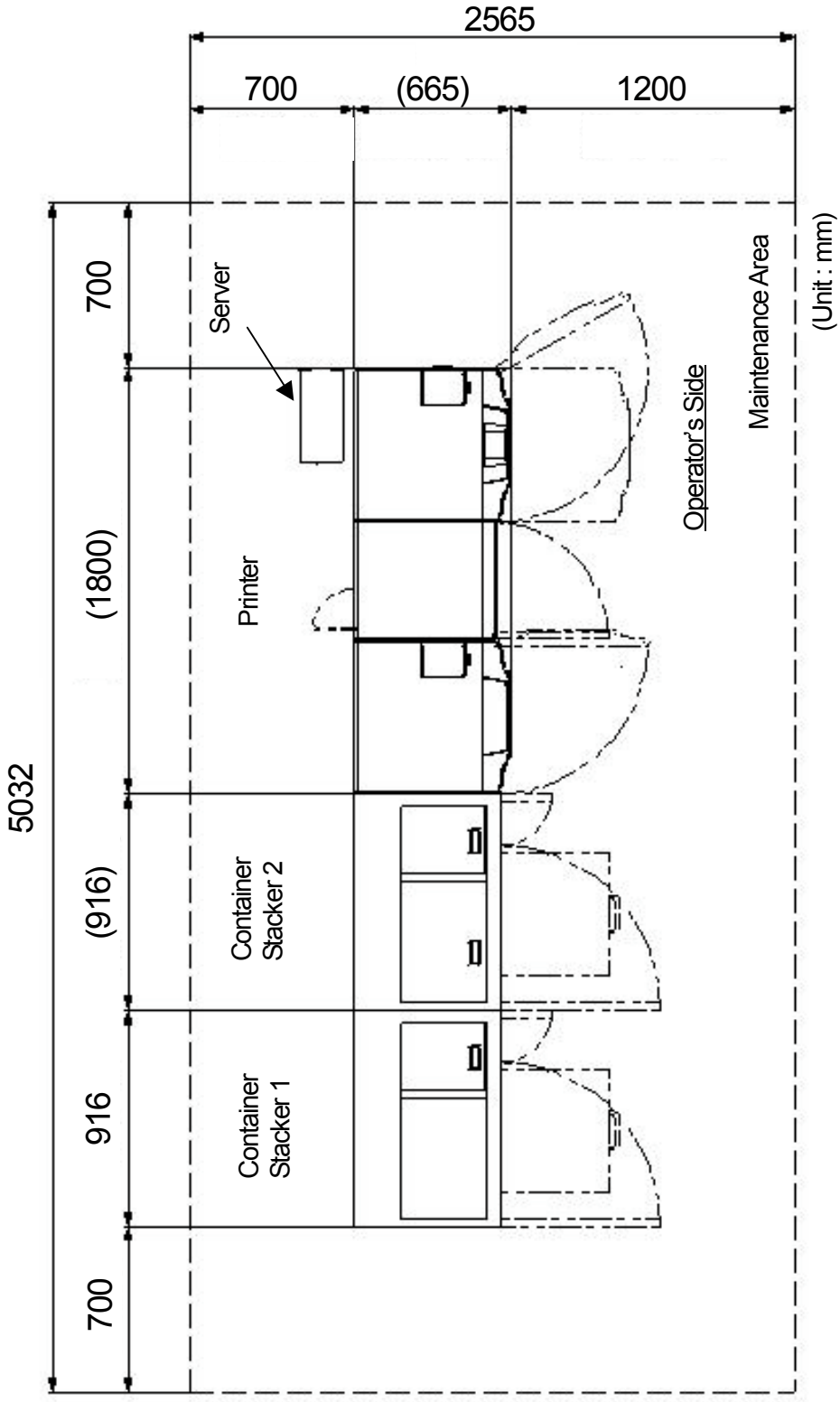
Appendix 1.3 Installation/maintenance area of the Printer and Container Stacker 1 (including sample tray).



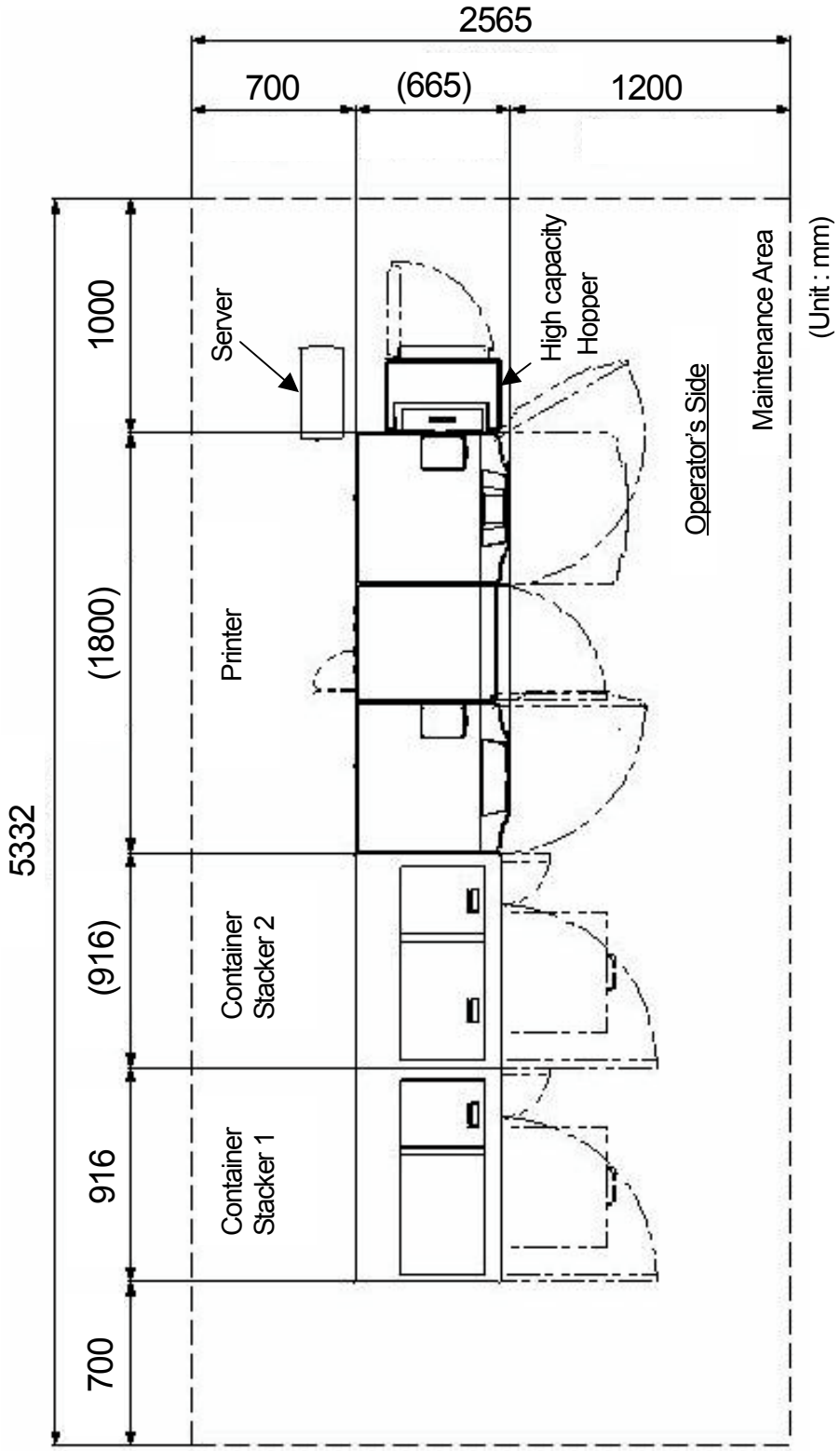
Appendix 1.4 Installation/maintenance area of the Printer, High Capacity Hopper and Container Stacker 1 (including sample tray).



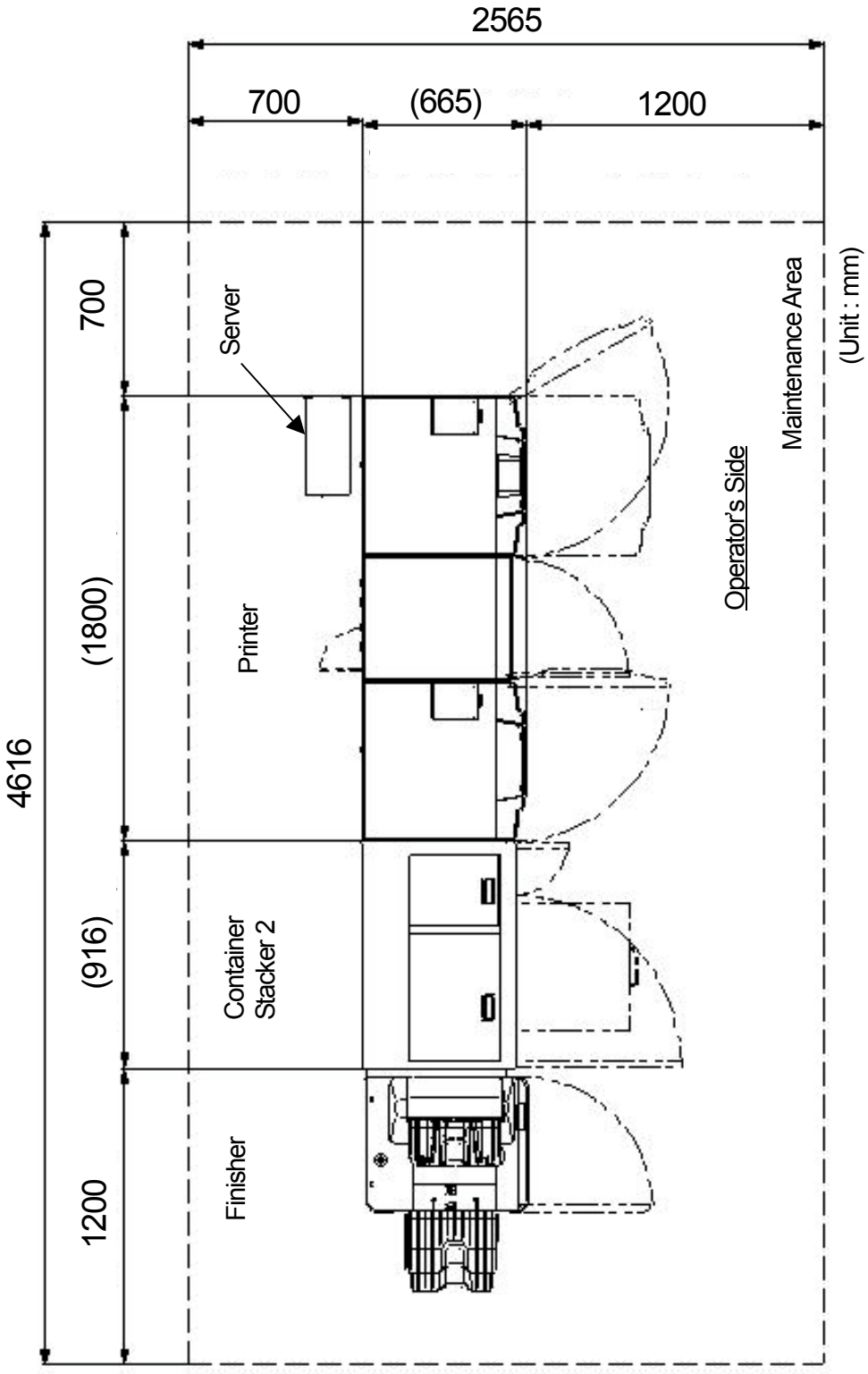
Appendix 1.5 Installation/maintenance area of the Printer, Container Stacker 1 (including sample tray) and Container stacker 2 (including through path unit).



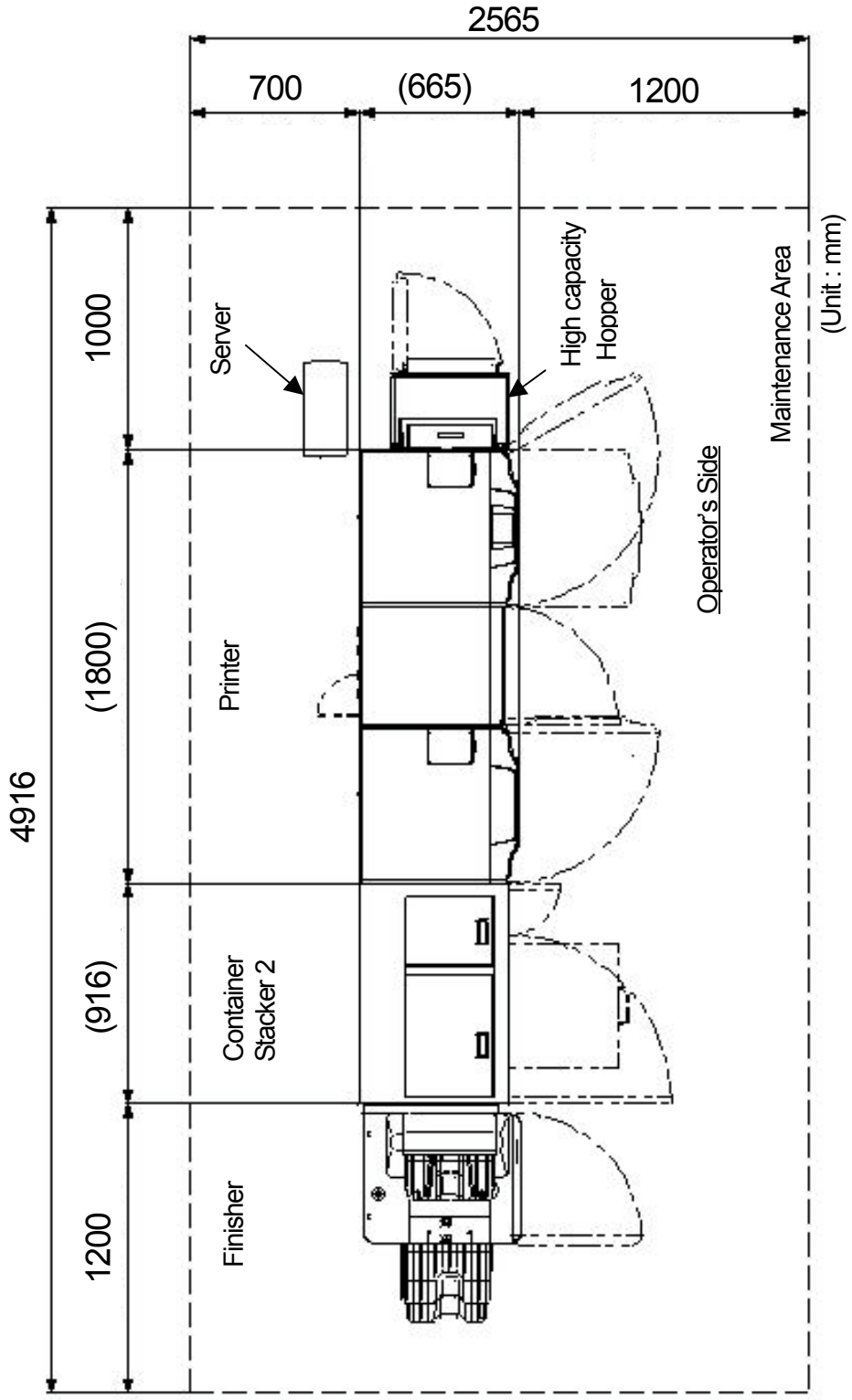
Appendix 1.6 Installation/maintenance area of the Printer, High Capacity Hopper, Container Stacker 1 (including sample tray) and Container stacker 2 (including through path unit).



Appendix 1.7 Installation/maintenance area of the Printer, Container Stacker 2 (including through path unit) and Finisher.



Appendix 1.8 Installation/maintenance area of the Printer, High Capacity Hopper, Container Stacker 2 (including through path unit) and Finisher.

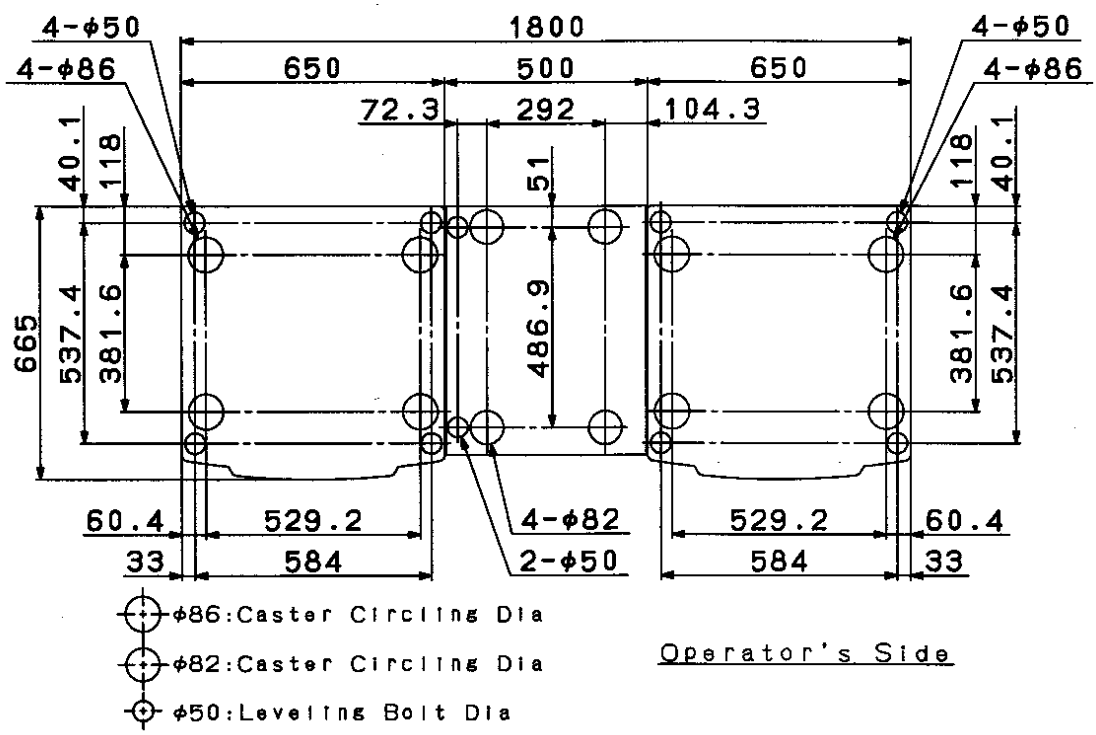


Appendix 2. Locations of the Leveling Bolt and Caster

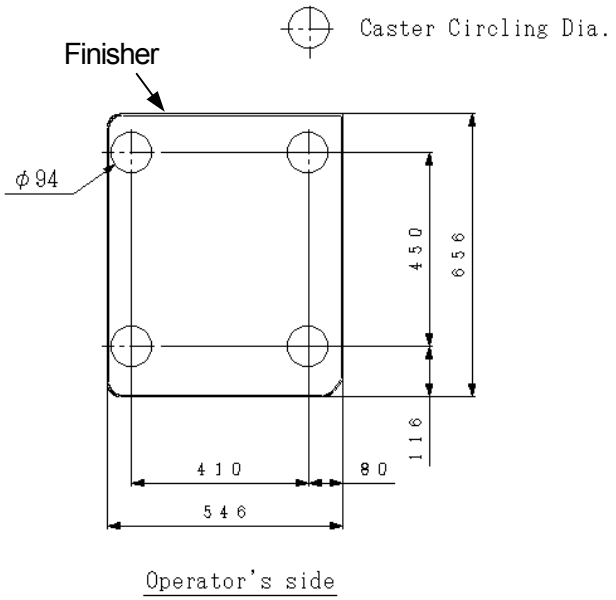
Appendix 2.1 Locations of the Leveling Bolt and Caster of the Printer

CAUTION

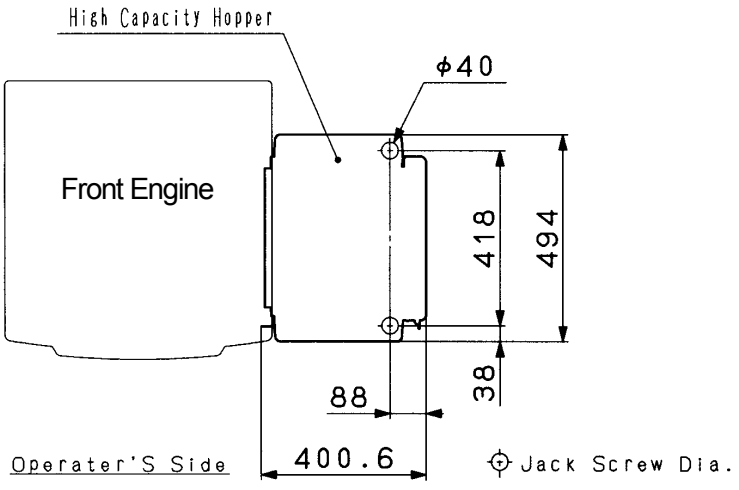
Make sure that the ground under the floor where the Leveling Bolt is installed is reinforced by the stand or other. If the ground is not reinforced, because of the holes on the floor, the Printer may tilt and maybe the paper path will be affected.



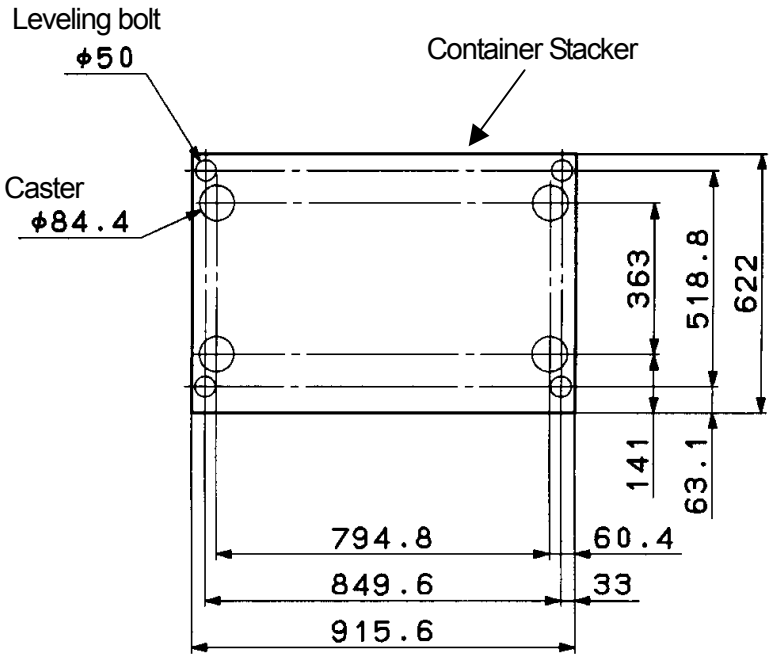
Appendix 2.2 Locations of the Leveling Bolt and Caster of the Finisher



Appendix 2.3 Locations of the Leveling Bolt and Caster of the High Capacity Hopper

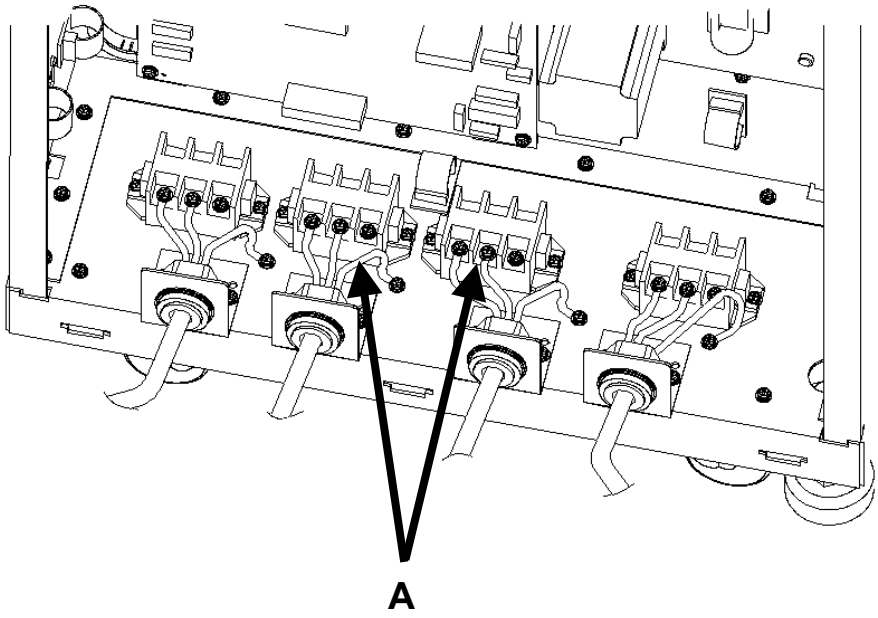


Appendix 2.4 Locations of the Leveling Bolt and Caster of the Container Stacker.

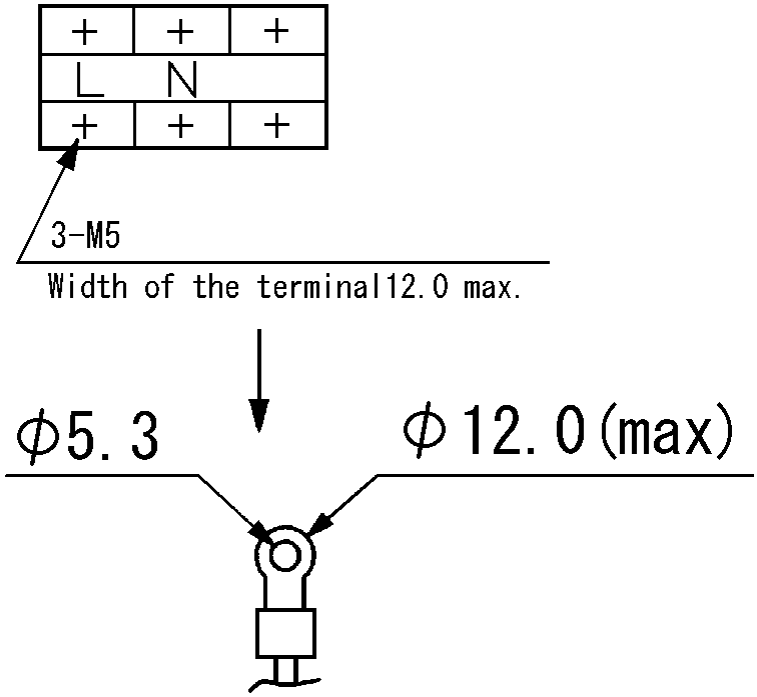


Operator's side

Appendix 3.Connector Mounting Diagram



A : Terminal for receiving transmitted electricity

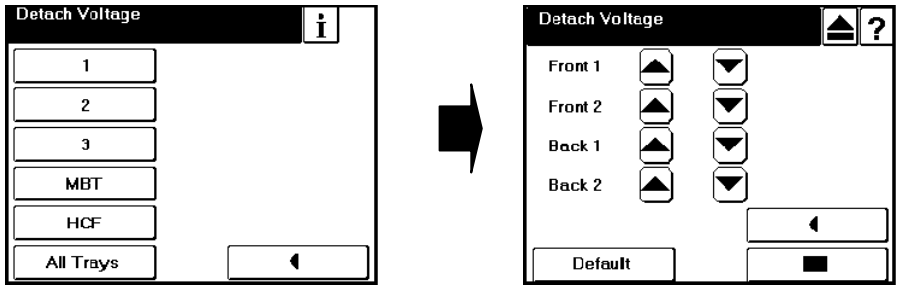


Appendix 4. Detach Voltage Adjustment (When the installation site is 1300ft or more)

The Detach Voltage is sensitive to elevation, humidity, and paper type. Therefore, when the installation site is 1300ft or more, it is necessary to be set appropriately according to altitude of installation site.
The procedure for adjusting the Detach Voltage will depend on the Controller Version of your printer. Performing the following steps, set the Detach Voltage.

Select ***Printer / Options / >>/ Detach Voltage / Front Engine or Rear Engine***

The following screen will be displayed.



Select ***All trays***

Set the Detach Voltage value by using " ▲" and " ▼" buttons, according to the altitude as shown in table 6.1. At that time, make the setting of both the front and back pages same.

Table 6.1 The Detach Voltage Setting according to the altitude

	Default	0ft<altitude<1,300ft	1,300ft<altitude<3,800	3,800ft<altitude<7,000
DTC_PWM	144	144	128	112